



**BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA**

TECHNICAL MEMORANDUM

**IMPORT SOIL EVALUATION
USE OF SOIL SOURCES F AND G AS IMPORT TO PARCEL C**

To: Mr. Brian Mossman
Boeing Realty Corporation
3760 Kilroy Airport Way, Suite 500
Long Beach, CA 90806

From: Haley & Aldrich, Inc.

Date: March 6, 2001

Re: Import Soil Evaluation, Use of Soil Sources F and G as Import to Parcel C, Boeing Realty Corporation, Former C-6 Facility – Parcel C, Los Angeles, California

Haley & Aldrich, Inc. is herein providing this technical memorandum to summarize our recommendations regarding use of two identified potential import soil sources, herein referred to as Sources F and G, as import to Parcel C of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (subject parcel).

OVERVIEW/PURPOSE

Two sources of soil, totaling up to approximately 9,000 cubic yards, have been identified as potential import soil for use on Parcel C. Kennedy Jenks Consultants (K/J) collected a soil sample from each of these sources and tested these samples in accordance with the protocol presented in the December 11, 2000 Import Soil Screening Program Plan prepared for Parcel C. This plan has been used as guidance to evaluate import soil from "offsite" sources. The criteria presented in the plan were then compared to the analytical results of the soil samples. The purpose of this technical memorandum is to present a summary of the import soil evaluation of the Sources F and G soils and to provide recommendations for use as import for Parcel C.

LOCATION OF PROPOSED SOURCES F AND G IMPORT SOIL

The Source F potential import soil comprises between 4,000 and 5,000 cubic yards. Source F soil originated from a property situated at 166th and Falda in Torrance, California. It is understood through conversations with Mr. Scott Tredick of Viking Equipment Company that the Source F property has historically been developed for residential use and is currently being redeveloped for residential purposes.

The Source G potential import soil comprises approximately 4,000 cubic yards. Source G soil originated from residential property situated on Ocean Boulevard between the Pacific Coast Highway and Lomita in Torrance, California. The soil was excavated to allow for the construction of a sidewalk along Ocean Boulevard.

COMPARISON OF ANALYTICAL RESULTS TO IMPORT SOIL GUIDANCE CRITERIA

The laboratory report for the soil samples collected from the subject potential import soils is presented as Attachment 1. Each sample was tested for metals, and various organic chemicals, including total petroleum hydrocarbons, polynuclear aromatic hydrocarbons, and volatile organic hydrocarbons. A review of the laboratory results indicates that the organic chemical results are within the import soil evaluation criteria presented in the December 11, 2000 Import Soil Screening Program Plan. A summary of the detected organic compounds and their associated soil import criteria are presented in Table 1. The remaining organic compounds analyzed for were not detected, and their detection limits are within the soil import criteria.

Table 1. Summary of Detected Organic Results and Associated Import Soil Criteria

Sample Identification	Chemical	Reported Concentration (mg/kg)	Import Soil Criterion (mg/kg)
SOURCE F_02_14_01_1	Total petroleum hydrocarbons (C18-C40+)	25	< 10 – 5,000
SOURCE G_02_14_01_1	Total petroleum hydrocarbons (C24-C31)	310	< 10 – 5,000
	1,2-Dichloroethane	0.001	< 0.005 – 206
	Anthracene	0.0036	< 0.008 – 4,060
	Benzo(a)anthracene	0.073	< 0.016 – 11.4
	Benzo(a)pyrene	0.036	< 0.004 – 1.14
	Benzo(b)fluoranthene	0.035	< 0.004 – 11.4
	Fluoranthene	0.020	< 0.020 – 6,970

Several of the metals results are greater than the criteria, but are within the reported southern California background literature values. A summary of these metals results is presented in Table 2. The remaining metals analyzed for are within the import soil criteria.

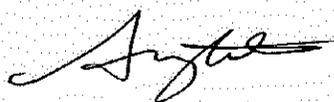
Table 2. Summary of Metals Results Greater Than Import Soil Criteria and Associated Import Soil Criteria and Regional Background Concentrations

Sample Identification	Chemical	Reported Concentration (mg/kg)	Import Soil Criterion (mg/kg)	Southern California Background (mg/kg)
SOURCE F_02_14_01_1	Barium	184	135	23 – 560
	Beryllium	0.56	< 0.5	< 0.1 – 1.2
	Cadmium	0.58	< 0.5	0.05 – 1.45
	Cobalt	10.7	9.4	1.6 – 23.2
	Copper	43.4	20	3.8 – 54
	Lead	8.4	8	2.5 – 189.4
	Vanadium	45.8	38	18 – 84.8
	Zinc	68.6	64	10.3 – 247
SOURCE G_02_14_01_1	Barium	200	135	23 – 560
	Beryllium	0.61	< 0.5	< 0.1 – 1.2
	Cadmium	0.71	< 0.5	0.05 – 1.45
	Cobalt	12.4	9.4	1.6 – 23.2
	Copper	59.9	20	3.8 – 54
	Vanadium	53.3	38	18 – 84.8
	Zinc	80.2	64	10.3 – 247

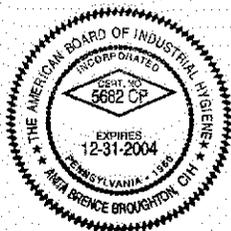
RECOMMENDATIONS FOR USE AS IMPORT SOIL

It is recommended that the subject approximately 9,000 cubic yards of soil comprising Sources F and G be used as fill soil on Parcel C. Even though various metals results did not meet the soil import guidance criteria, the reported soil concentrations are within the southern California background literature values. These background values are considered to be representative of the general geographic region from which the Sources F and G import soils originated, and are not considered to be a result of chemical contamination.

Sincerely yours,
HALEY & ALDRICH, INC.



Anita Broughton
Risk Assessment Task Manager




Scott Zachary
Project Manager

Attachments:

Attachment 1 Laboratory Report

**SEVERN
TRENT
SERVICES**

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
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February 28, 2001

STL LOT NUMBER: **E1B160288**
PO/CONTRACT: 05160-SEV002

Rus Purcell
Kennedy/Jenks Consultants
2151 Michelson Drive
Suite 100
Irvine, CA 92612

Dear Mr. Purcell,

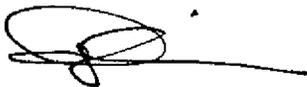
This report contains the analytical results for the two samples received under chain of custody by STL Los Angeles on February 16, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures meet method-specified acceptance criteria except as noted on the following page. See Project Receipt Checklist for container temperature and conditions. Temperature reading beyond 2 to 6 degrees Celsius is considered not within acceptable criteria unless otherwise noted such as limited transit time from field and test requested. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the test results provided in this report meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at 714-258-8610.

Sincerely,



Diane Suzuki
Project Manager

cc: Project File

This report contains 000056 pages.

LOT NUMBER E1B160288

Nonconformance G11358

Affected Samples:

1: Source F_02_14_01_1

2: Source G_02_14_01_1

Affected Methods:

8310 PAHs

Case Narrative:

There was insufficient sample volume provided to prepare a project-specific MS/MSD. A duplicate LCS has been prepared to provide accuracy and precision measurement for the samples in this project.

000002

EXECUTIVE SUMMARY - Detection Highlights

E1B160288

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SOURCE F_02_14_01_1 02/14/01 15:30 001				
C24-C27	5.3 J	10	mg/kg	SW846 8015B
C28-C31	5.2 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	25	10	mg/kg	SW846 8015B
Mercury	0.023 B	0.10	mg/kg	SW846 7471A
Aluminum	19500	20.0	mg/kg	SW846 6010B
Arsenic	3.4	1.0	mg/kg	SW846 6010B
Barium	184	2.0	mg/kg	SW846 6010B
Cadmium	0.58	0.50	mg/kg	SW846 6010B
Chromium	22.9	1.0	mg/kg	SW846 6010B
Beryllium	0.56	0.50	mg/kg	SW846 6010B
Lead	8.4	0.50	mg/kg	SW846 6010B
Cobalt	10.7	5.0	mg/kg	SW846 6010B
Copper	43.4	2.5	mg/kg	SW846 6010B
Molybdenum	0.49 B	4.0	mg/kg	SW846 6010B
Nickel	16.2	4.0	mg/kg	SW846 6010B
Vanadium	45.8	5.0	mg/kg	SW846 6010B
Zinc	68.6	2.0	mg/kg	SW846 6010B
SOURCE G_02_14_01_1 02/14/01 16:15 002				
C18-C19	5.2 J	10	mg/kg	SW846 8015B
C20-C23	9.1 J	10	mg/kg	SW846 8015B
C24-C27	19	10	mg/kg	SW846 8015B
C28-C31	44	10	mg/kg	SW846 8015B
C32-C35	49	10	mg/kg	SW846 8015B
C36-C39	51	10	mg/kg	SW846 8015B
C40+	120	10	mg/kg	SW846 8015B
Total Carbon Chain Range	310	10	mg/kg	SW846 8015B
Anthracene	3.6 J	16	ug/kg	SW846 8310
Benzo (a) anthracene	73	32	ug/kg	SW846 8310
Benzo (a) pyrene	36	20	ug/kg	SW846 8310
Benzo (b) fluoranthene	35	8.0	ug/kg	SW846 8310
Fluoranthene	20 J	40	ug/kg	SW846 8310
Mercury	0.098 B	0.10	mg/kg	SW846 7471A
Aluminum	21900	20.0	mg/kg	SW846 6010B
Arsenic	3.8	1.0	mg/kg	SW846 6010B
Barium	200	2.0	mg/kg	SW846 6010B
Cadmium	0.71	0.50	mg/kg	SW846 6010B
Chromium	24.4	1.0	mg/kg	SW846 6010B
Beryllium	0.61	0.50	mg/kg	SW846 6010B
Lead	7.9	0.50	mg/kg	SW846 6010B
Cobalt	12.4	5.0	mg/kg	SW846 6010B
Copper	59.9	2.5	mg/kg	SW846 6010B

(Continued on next page)

000005

EXECUTIVE SUMMARY - Detection Highlights

E1B160288

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SOURCE G_02_14_01_1 02/14/01 16:15 002				
Molybdenum	0.47 B	4.0	mg/kg	SW846 6010B
Nickel	17.6	4.0	mg/kg	SW846 6010B
Vanadium	53.3	5.0	mg/kg	SW846 6010B
Zinc	80.2	2.0	mg/kg	SW846 6010B
1,2-Dichloroethane	1.0 J	5.0	ug/kg	SW846 8260B

000005

METHODS SUMMARY

E1B160288

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3550
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

000007

SAMPLE SUMMARY

E1B160288

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT</u>	<u>SAMPLE ID</u>	<u>SAMPLED</u>	<u>SAMP</u>
				<u>DATE</u>	<u>TIME</u>
DV9F1	001	SOURCE	F_02_14_01_1	02/14/01	15:30
DV9F9	002	SOURCE	G_02_14_01_1	02/14/01	16:15

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000008

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE F_02_14_01_1

GC Semivolatiles

Lot-Sample #...: E1B160288-001 Work Order #...: DV9F11AC Matrix.....: SOLID
 Date Sampled...: 02/14/01 15:30 Date Received...: 02/16/01 14:10 MS Run #.....: 1047232
 Prep Date.....: 02/16/01 Analysis Date...: 02/19/01
 Prep Batch #...: 1047422 Analysis Time...: 11:54
 Dilution Factor: 1
 Analyst ID.....: 356074 Instrument ID...: G01
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	5.3 J	10	mg/kg	5.0
C28-C31	5.2 J	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	25	10	mg/kg	5.0

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Benzo (a) pyrene	86	(60 - 130)

NOTE (S) :

J Estimated result. Result is less than RL.

000009

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE F_02_14_01_1

GC Volatiles

Lot-Sample #...: E1B160288-001 Work Order #...: DV9F11AD Matrix.....: SOLID
Date Sampled...: 02/14/01 15:30 Date Received...: 02/16/01 14:10 MS Run #.....: 1051151
Prep Date.....: 02/19/01 Analysis Date...: 02/19/01
Prep Batch #...: 1051278 Analysis Time...: 11:23
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G16
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
C6-C8	ND	1.0	mg/kg	0.10
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
a,a,a-Trifluorotoluene (TFT)	84	(60 - 130)		

000010

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE F_02_14_01_1

GC/MS Volatiles

Lot-Sample #...: E1B160288-001 Work Order #...: DV9F11AA Matrix.....: SOLID
 Date Sampled...: 02/14/01 15:30 Date Received...: 02/16/01 14:10 MS Run #.....: 1050291
 Prep Date.....: 02/16/01 Analysis Date...: 02/16/01
 Prep Batch #...: 1050518 Analysis Time...: 22:21
 Dilution Factor: 1
 Analyst ID.....: 015590 Instrument ID...: MSG
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

(Continued on next page)

000011

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE F_02_14_01_1

GC/MS Volatiles

Lot-Sample #...: E1B160288-001 Work Order #...: DV9F11AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro- propane	ND	10	ug/kg	3.0
1,2,4-Trichloro- benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
	PERCENT	RECOVERY		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Bromofluorobenzene	105	(70 - 130)		
1,2-Dichloroethane-d4	86	(60 - 140)		
Toluene-d8	90	(70 - 130)		

000012

BOE-C6-0006167

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE F_02_14_01_1

HPLC

Lot-Sample #...: E1B160288-001 Work Order #...: DV9F11A1 Matrix.....: SOLID
 Date Sampled...: 02/14/01 15:30 Date Received...: 02/16/01 14:10 MS Run #.....:
 Prep Date.....: 02/19/01 Analysis Date...: 02/27/01
 Prep Batch #...: 1050301 Analysis Time...: 12:07
 Dilution Factor: 1
 Analyst ID.....: 057134 Instrument ID...: LC7
 Method.....: SW846 8310

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	400	ug/kg	63
Acenaphthylene	ND	200	ug/kg	46
Anthracene	ND	8.0	ug/kg	1.1
Benzo (a) anthracene	ND	16	ug/kg	1.7
Benzo (a) pyrene	ND	10	ug/kg	3.1
Benzo (b) fluoranthene	ND	4.0	ug/kg	2.4
Benzo (ghi) perylene	ND	16	ug/kg	3.1
Benzo (k) fluoranthene	ND	4.0	ug/kg	1.1
Chrysene	ND	20	ug/kg	14
Dibenz (a, h) anthracene	ND	40	ug/kg	9.2
Fluoranthene	ND	20	ug/kg	4.8
Fluorene	ND	40	ug/kg	6.7
Indeno (1, 2, 3-cd) pyrene	ND	20	ug/kg	3.1
Naphthalene	ND	200	ug/kg	23
Phenanthrene	ND	16	ug/kg	2.6
Pyrene	ND	40	ug/kg	11

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1-Methylnaphthalene	50	(41 - 115)

000013

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE G_02_14_01_1

GC Semivolatiles

Lot-Sample #....: E1B160288-002 Work Order #....: DV9F91AE Matrix.....: SOLID
 Date Sampled....: 02/14/01 16:15 Date Received...: 02/16/01 14:10 MS Run #.....: 1047232
 Prep Date.....: 02/16/01 Analysis Date...: 02/19/01
 Prep Batch #....: 1047422 Analysis Time...: 12:24
 Dilution Factor: 1
 Analyst ID.....: 356074 Instrument ID...: G01
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	5.2 J	10	mg/kg	5.0
C20-C23	9.1 J	10	mg/kg	5.0
C24-C27	19	10	mg/kg	5.0
C28-C31	44	10	mg/kg	5.0
C32-C35	49	10	mg/kg	5.0
C36-C39	51	10	mg/kg	5.0
C40+	120	10	mg/kg	5.0
Total Carbon Chain Range	310	10	mg/kg	5.0

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Benzo (a) pyrene	80	(60 - 130)

NOTE(S) :

J Estimated result. Result is less than RL.

000014

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE G_02_14_01_1

GC/MS Volatiles

Lot-Sample #...: E1B160288-002 Work Order #...: DV9F91AD Matrix.....: SOLID
 Date Sampled...: 02/14/01 16:15 Date Received...: 02/16/01 14:10 MS Run #.....: 1050291
 Prep Date.....: 02/16/01 Analysis Date...: 02/16/01
 Prep Batch #...: 1050518 Analysis Time...: 20:00
 Dilution Factor: 1
 Analyst ID.....: 015590 Instrument ID...: MSG
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	1.0 J	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

(Continued on next page)

000016

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE G_02_14_01_1

GC/MS Volatiles

Lot-Sample #...: E1B160288-002 Work Order #...: DV9F91AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro- propane	ND	10	ug/kg	3.0
1,2,4-Trichloro- benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Bromofluorobenzene	110	(70 - 130)		
1,2-Dichloroethane-d4	89	(60 - 140)		
Toluene-d8	93	(70 - 130)		

NOTE (S) :

J Estimated result. Result is less than RL.

000017

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE G_02_14_01_1

HPLC

Lot-Sample #...: E1B160288-002 Work Order #...: DV9F91AC Matrix.....: SOLID
 Date Sampled...: 02/14/01 16:15 Date Received...: 02/16/01 14:10 MS Run #.....:
 Prep Date.....: 02/19/01 Analysis Date...: 02/27/01
 Prep Batch #...: 1050301 Analysis Time...: 11:26
 Dilution Factor: 2
 Analyst ID.....: 057134 Instrument ID...: LC7
 Method.....: SW846 8310

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	800	ug/kg	130
Acenaphthylene	ND	400	ug/kg	92
Anthracene	3.6 J	16	ug/kg	2.2
Benzo (a) anthracene	73	32	ug/kg	3.4
Benzo (a) pyrene	36	20	ug/kg	6.2
Benzo (b) fluoranthene	35	8.0	ug/kg	4.8
Benzo (ghi) perylene	ND G	160	ug/kg	6.2
Benzo (k) fluoranthene	ND	8.0	ug/kg	2.2
Chrysene	ND	40	ug/kg	28
Dibenz (a, h) anthracene	ND	80	ug/kg	18
Fluoranthene	20 J	40	ug/kg	9.6
Fluorene	ND	80	ug/kg	13
Indeno (1, 2, 3-cd) pyrene	ND G	50	ug/kg	6.2
Naphthalene	ND	400	ug/kg	46
Phenanthrene	ND	32	ug/kg	5.2
Pyrene	ND	80	ug/kg	22

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1-Methylnaphthalene	66	(41 - 115)

NOTE (S) :

J Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

000018

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE F_02_14_01_1

TOTAL Metals

Lot-Sample #...: E1B160288-001

Matrix.....: SOLID

Date Sampled...: 02/14/01 15:30 Date Received...: 02/16/01 14:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #...: 1046471							
Mercury	0.023 B	0.10	mg/kg		SW846 7471A	02/16-02/17/01	DV9F11AO
		Dilution Factor: 1			Analysis Time...: 11:10	Analyst ID.....: 021088	
		Instrument ID...: M04			MS Run #.....: 1046229	MDL.....: 0.020	
Prep Batch #...: 1047263							
Aluminum	19500	20.0	mg/kg		SW846 6010B	02/16-02/19/01	DV9F11AE
		Dilution Factor: 1			Analysis Time...: 17:14	Analyst ID.....: 0031199	
		Instrument ID...: M01			MS Run #.....: 1047116	MDL.....: 8.0	
Arsenic	3.4	1.0	mg/kg		SW846 6010B	02/16-02/19/01	DV9F11AF
		Dilution Factor: 1			Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01			MS Run #.....: 1047116	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg		SW846 6010B	02/16-02/19/01	DV9F11AG
		Dilution Factor: 1			Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01			MS Run #.....: 1047116	MDL.....: 0.20	
Barium	184	2.0	mg/kg		SW846 6010B	02/16-02/19/01	DV9F11AH
		Dilution Factor: 1			Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01			MS Run #.....: 1047116	MDL.....: 0.10	
Cadmium	0.58	0.50	mg/kg		SW846 6010B	02/16-02/19/01	DV9F11AJ
		Dilution Factor: 1			Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01			MS Run #.....: 1047116	MDL.....: 0.050	
Chromium	22.9	1.0	mg/kg		SW846 6010B	02/16-02/19/01	DV9F11AK
		Dilution Factor: 1			Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01			MS Run #.....: 1047116	MDL.....: 0.10	
Beryllium	0.56	0.50	mg/kg		SW846 6010B	02/16-02/19/01	DV9F11AL
		Dilution Factor: 1			Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01			MS Run #.....: 1047116	MDL.....: 0.050	
Lead	8.4	0.50	mg/kg		SW846 6010B	02/16-02/19/01	DV9F11AM
		Dilution Factor: 1			Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01			MS Run #.....: 1047116	MDL.....: 0.30	

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000019

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE F_02_14_01_1

TOTAL Metals

Lot-Sample #...: E1B160288-001

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Selenium	ND	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AN
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AP
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.10	
Cobalt	10.7	5.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AQ
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.10	
Copper	43.4	2.5	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AR
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.40	
Molybdenum	0.49 B	4.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AT
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.30	
Nickel	16.2	4.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AU
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AV
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.50	
Vanadium	45.8	5.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AW
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.10	
Zinc	68.6	2.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F11AX
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 1.0	

NOTE(S) :

B Estimated result. Result is less than RL.

000020

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE G_02_14_01_1

TOTAL Metals

Lot-Sample #...: E1B160288-002

Matrix.....: SOLID

Date Sampled...: 02/14/01 16:15 Date Received...: 02/16/01 14:10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1046471						
Mercury	0.098 B	0.10	mg/kg	SW846 7471A	02/16-02/17/01	DV9F91AA
		Dilution Factor: 1		Analysis Time...: 11:12	Analyst ID.....: 021088	
		Instrument ID...: M04		MS Run #.....: 1046229	MDL.....: 0.020	
Prep Batch #...: 1047263						
Aluminum	21900	20.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AG
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031199	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 8.0	
Arsenic	3.8	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AH
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AJ
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.20	
Barium	200	2.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AK
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.10	
Cadmium	0.71	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AL
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.050	
Chromium	24.4	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AM
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.10	
Beryllium	0.61	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AN
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.050	
Lead	7.9	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AP
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.30	

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000021

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE G_02_14_01_1

TOTAL Metals

Lot-Sample #...: E1B160288-002

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Selenium	ND	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AQ
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AR
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.10	
Cobalt	12.4	5.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AT
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.10	
Copper	59.9	2.5	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AU
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.40	
Molybdenum	0.47 B	4.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AV
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.30	
Nickel	17.6	4.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AW
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91AX
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.50	
Vanadium	53.3	5.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91A0
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 0.10	
Zinc	80.2	2.0	mg/kg	SW846 6010B	02/16-02/19/01	DV9F91A1
		Dilution Factor: 1		Analysis Time...: 17:22	Analyst ID.....: 0031196	
		Instrument ID...: M01		MS Run #.....: 1047116	MDL.....: 1.0	

NOTE(S) :

B Estimated result. Result is less than RL.

000022

QC DATA ASSOCIATION SUMMARY

E1B160288

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 8015B		1047422	1047232
	SOLID	SW846 8015B		1051278	1051151
	SOLID	SW846 7471A		1046471	1046229
	SOLID	SW846 8260B		1050518	1050291
	SOLID	SW846 6010B		1047263	1047116
	SOLID	SW846 8310		1050301	
002	SOLID	SW846 8015B		1047422	1047232
	SOLID	SW846 8015B		1051278	1051151
	SOLID	SW846 7471A		1046471	1046229
	SOLID	SW846 8260B		1050518	1050291
	SOLID	SW846 6010B		1047263	1047116
	SOLID	SW846 8310		1050301	

000023

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1B160288
 MB Lot-Sample #: E1B160000-422

Work Order #...: DV9G51AA

Matrix.....: SOLID

Analysis Date...: 02/19/01
 Dilution Factor: 1

Prep Date.....: 02/16/01
 Prep Batch #...: 1047422

Analysis Time...: 10:53
 Instrument ID...: G01

Analyst ID.....: 356074

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Benzo (a) pyrene	84	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000024

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

Date Sampled...: 02/13/01 09:55 Date Received...: 02/14/01 17:00

<u>PARAMETER</u>	<u>AMOUNT</u>	<u>AMT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u>	<u>RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
									<u>ANALYSIS DATE</u>	<u>ORDER #</u>

MS Lot-Sample #: E1B140272-002 Prep Batch #...: 1046471

Mercury

ND	0.167	0.183	mg/kg	110		SW846	7471A		02/16-02/17/01	DV5NN1C3
ND	0.167	0.172	mg/kg	103	6.6	SW846	7471A		02/16-02/17/01	DV5NN1C4

Dilution Factor: 1

Analysis Time...: 10:35

Instrument ID...: M04

Analyst ID.....: 021088

MS Run #.....: 1046229

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000025

METHOD BLANK REPORT

HPLC

Client Lot #...: E1B160288
 MB Lot-Sample #: G1B190000-301

Work Order #...: DWA1F1AA

Matrix.....: SOLID

Analysis Date...: 02/27/01
 Dilution Factor: 1

Prep Date.....: 02/19/01
 Prep Batch #...: 1050301

Analysis Time...: 10:46
 Instrument ID...: LC7

Analyst ID.....: 057134

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	400	ug/kg	SW846 8310
Acenaphthylene	ND	200	ug/kg	SW846 8310
Anthracene	ND	8.0	ug/kg	SW846 8310
Benzo (a) anthracene	ND	16	ug/kg	SW846 8310
Benzo (a) pyrene	ND	10	ug/kg	SW846 8310
Benzo (b) fluoranthene	ND	4.0	ug/kg	SW846 8310
Benzo (ghi) perylene	ND	16	ug/kg	SW846 8310
Benzo (k) fluoranthene	ND	4.0	ug/kg	SW846 8310
Chrysene	ND	20	ug/kg	SW846 8310
Dibenz (a, h) anthracene	ND	40	ug/kg	SW846 8310
Fluoranthene	ND	20	ug/kg	SW846 8310
Fluorene	ND	40	ug/kg	SW846 8310
Indeno (1, 2, 3-cd) pyrene	ND	20	ug/kg	SW846 8310
Naphthalene	ND	200	ug/kg	SW846 8310
Phenanthrene	ND	16	ug/kg	SW846 8310
Pyrene	ND	40	ug/kg	SW846 8310

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1-Methylnaphthalene	50	(41 - 115)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000026

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1B160288 Work Order #...: DWCH31AA Matrix.....: SOLID
 MB Lot-Sample #: E1B190000-518
 Analysis Date...: 02/16/01 Prep Date.....: 02/16/01 Analysis Time...: 18:14
 Dilution Factor: 1 Prep Batch #...: 1050518 Instrument ID...: MSG
 Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	50	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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000027

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1B160288

Work Order #...: DWCH31AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro- benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	110	(70 - 130)
1,2-Dichloroethane-d4	81	(60 - 140)
Toluene-d8	95	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000023

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1B160288 Work Order #...: DWDH61AA Matrix.....: SOLID
MB Lot-Sample #: E1B200000-278
Prep Date.....: 02/19/01 Analysis Time...: 10:55
Prep Batch #...: 1051278 Instrument ID...: G16
Analysis Date...: 02/19/01
Dilution Factor: 1
Analyst ID.....: 001464

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
C6-C8	ND	1.0	mg/kg	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
a,a,a-Trifluorotoluene (TFT)	78	(60 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000023

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1B150000-471 Prep Batch #...: 1046471						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/16-02/17/01	DV7PT1AA
		Dilution Factor: 1				
		Analysis Time..: 10:30		Analyst ID.....: 021088	Instrument ID..: M04	
MB Lot-Sample #: E1B160000-263 Prep Batch #...: 1047263						
Aluminum	ND	20.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AA
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AC
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AD
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AE
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AF
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	
Chromium	0.12 B	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AG
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AH
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AJ
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AK
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID..: M01	

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000030

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AL
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID...: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AM
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID...: M01	
Copper	ND	2.5	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AN
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID...: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AP
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID...: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AQ
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID...: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AR
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID...: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AT
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID...: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	02/16-02/19/01	DV8G41AU
		Dilution Factor: 1				
		Analysis Time..: 17:00		Analyst ID.....: 003119	Instrument ID...: M01	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

000031

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: E1B160288 Work Order #...: DWAlFlAC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: G1B190000-301 DWAlFlAD-LCSD
 Prep Date.....: 02/19/01 Analysis Date...: 02/27/01
 Prep Batch #...: 1050301 Analysis Time...: 18:39
 Dilution Factor: 1 Instrument ID...: LC7
 Analyst ID.....: 057134

PARAMETER	SPIKE	MEASURED		PERCENT		METHOD
	AMOUNT	AMOUNT	UNITS	RECOVERY	RPD	
Acenaphthene	1330	971	ug/kg	73		SW846 8310
	1330	967	ug/kg	73	0.35	SW846 8310
Acenaphthylene	667	436	ug/kg	65		SW846 8310
	667	483	ug/kg	72	10	SW846 8310
Anthracene	26.6	17.6	ug/kg	66		SW846 8310
	26.6	19.8	ug/kg	74	12	SW846 8310
Benzo (a) anthracene	66.7	55.1	ug/kg	83		SW846 8310
	66.7	57.3	ug/kg	86	4.0	SW846 8310
Benzo (a) pyrene	66.7	44.0	ug/kg	66		SW846 8310
	66.7	53.6	ug/kg	80	20	SW846 8310
Benzo (b) fluoranthene	26.6	21.5	ug/kg	81		SW846 8310
	26.6	23.0	ug/kg	86	6.5	SW846 8310
Benzo (ghi) perylene	106	86.8	ug/kg	82		SW846 8310
	106	91.9	ug/kg	86	5.7	SW846 8310
Benzo (k) fluoranthene	26.6	20.6	ug/kg	77		SW846 8310
	26.6	22.1	ug/kg	83	7.0	SW846 8310
Chrysene	66.7	53.2	ug/kg	80		SW846 8310
	66.7	57.5	ug/kg	86	7.7	SW846 8310
Dibenz (a, h) anthracene	266	207	ug/kg	78		SW846 8310
	266	215	ug/kg	81	4.0	SW846 8310
Fluoranthene	66.7	53.6	ug/kg	80		SW846 8310
	66.7	55.7	ug/kg	84	3.8	SW846 8310
Fluorene	133	97.8	ug/kg	74		SW846 8310
	133	96.9	ug/kg	73	0.93	SW846 8310
Indeno (1,2,3-cd) pyrene	66.7	52.8	ug/kg	79		SW846 8310
	66.7	57.2	ug/kg	86	7.9	SW846 8310
Naphthalene	667	460	ug/kg	69		SW846 8310
	667	467	ug/kg	70	1.5	SW846 8310
Phenanthrene	53.2	41.0	ug/kg	77		SW846 8310
	53.2	41.2	ug/kg	77	0.50	SW846 8310
Pyrene	133	110	ug/kg	82		SW846 8310
	133	113	ug/kg	85	3.1	SW846 8310

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1-Methylnaphthalene	68	(41 - 115)
	67	(41 - 115)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000032

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: E1B160288 Work Order #...: DWA1F1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: G1B190000-301 DWA1F1AD-LCSD
 Prep Date.....: 02/19/01 Analysis Date...: 02/27/01
 Prep Batch #...: 1050301 Analysis Time...: 18:39
 Dilution Factor: 1 Instrument ID...: LC7
 Analyst ID.....: 057134

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD	RPD	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Acenaphthene	73	(50 - 150)			SW846 8310
	73	(50 - 150)	0.35	(0-50)	SW846 8310
Acenaphthylene	65	(50 - 150)			SW846 8310
	72	(50 - 150)	10	(0-50)	SW846 8310
Anthracene	66	(50 - 150)			SW846 8310
	74	(50 - 150)	12	(0-50)	SW846 8310
Benzo (a) anthracene	83	(50 - 150)			SW846 8310
	86	(50 - 150)	4.0	(0-50)	SW846 8310
Benzo (a) pyrene	66	(49 - 107)			SW846 8310
	80	(49 - 107)	20	(0-53)	SW846 8310
Benzo (b) fluoranthene	81	(50 - 150)			SW846 8310
	86	(50 - 150)	6.5	(0-50)	SW846 8310
Benzo (ghi) perylene	82	(50 - 150)			SW846 8310
	86	(50 - 150)	5.7	(0-50)	SW846 8310
Benzo (k) fluoranthene	77	(50 - 150)			SW846 8310
	83	(50 - 150)	7.0	(0-50)	SW846 8310
Chrysene	80	(50 - 150)			SW846 8310
	86	(50 - 150)	7.7	(0-50)	SW846 8310
Dibenz (a, h) anthracene	78	(50 - 150)			SW846 8310
	81	(50 - 150)	4.0	(0-50)	SW846 8310
Fluoranthene	80	(50 - 150)			SW846 8310
	84	(50 - 150)	3.8	(0-50)	SW846 8310
Fluorene	74	(43 - 112)			SW846 8310
	73	(43 - 112)	0.93	(0-56)	SW846 8310
Indeno (1, 2, 3-cd) pyrene	79	(54 - 114)			SW846 8310
	86	(54 - 114)	7.9	(0-51)	SW846 8310
Naphthalene	69	(44 - 110)			SW846 8310
	70	(44 - 110)	1.5	(0-50)	SW846 8310
Phenanthrene	77	(50 - 150)			SW846 8310
	77	(50 - 150)	0.50	(0-50)	SW846 8310
Pyrene	82	(49 - 115)			SW846 8310
	85	(49 - 115)	3.1	(0-54)	SW846 8310

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
1-Methylnaphthalene	68	(41 - 115)
	67	(41 - 115)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000033

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1B160288 Work Order #...: DV9G51AC Matrix.....: SOLID
 LCS Lot-Sample#: E1B160000-422
 Prep Date.....: 02/16/01 Analysis Date...: 02/19/01
 Prep Batch #...: 1047422 Analysis Time...: 11:23
 Dilution Factor: 1 Instrument ID...: G01
 Analyst ID.....: 356074

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
TPH (as Diesel)	250	211	mg/kg	84	SW846 8015B
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
Benzo(a)pyrene		90	(60 - 130)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000034

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1B160288 Work Order #...: DWCH31AC Matrix.....: SOLID
 LCS Lot-Sample#: E1B190000-518
 Prep Date.....: 02/16/01 Analysis Date...: 02/16/01
 Prep Batch #...: 1050518 Analysis Time...: 17:39
 Dilution Factor: 1 Instrument ID...: MSG
 Analyst ID.....: 015590

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
1,1-Dichloroethene	50.0	59.2	ug/kg	118	SW846 8260B
Benzene	50.0	61.9	ug/kg	124	SW846 8260B
Trichloroethene	50.0	63.0	ug/kg	126	SW846 8260B
Toluene	50.0	51.5	ug/kg	103	SW846 8260B
Chlorobenzene	50.0	51.2	ug/kg	102	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	113	(70 - 130)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	95	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

000035

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1B160288 Work Order #...: DWDH61AC Matrix.....: SOLID
 LCS Lot-Sample#: E1B200000-278
 Prep Date.....: 02/19/01 Analysis Date...: 02/19/01
 Prep Batch #...: 1051278 Analysis Time...: 10:26
 Dilution Factor: 1 Instrument ID...: G16
 Analyst ID.....: 001464

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
TPH (as Gasoline)	5.00	4.91	mg/kg	98	SW846 8015B
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
a, a, a-Trifluorotoluene (TFT)		106	(60 - 130)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

000036

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: E1B150000-471 Prep Batch #...: 1046471							
Mercury	0.833	0.827	mg/kg	99	SW846 7471A	02/16-02/17/01	DV7PT1AC
				Dilution Factor: 1			
				Analysis Time...: 10:32		Analyst ID.....: 021088	Instrument ID...: M04
LCS Lot-Sample#: E1B160000-263 Prep Batch #...: 1047263							
Aluminum	200	192	mg/kg	96	SW846 6010B	02/16-02/19/01	DV8G41AV
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01
Arsenic	200	195	mg/kg	98	SW846 6010B	02/16-02/19/01	DV8G41AW
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01
Antimony	50.0	49.7	mg/kg	99	SW846 6010B	02/16-02/19/01	DV8G41AX
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01
Barium	200	203	mg/kg	101	SW846 6010B	02/16-02/19/01	DV8G41A0
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01
Cadmium	5.00	5.20	mg/kg	104	SW846 6010B	02/16-02/19/01	DV8G41A1
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01
Chromium	20.0	20.9	mg/kg	104	SW846 6010B	02/16-02/19/01	DV8G41A2
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01
Beryllium	5.00	5.25	mg/kg	105	SW846 6010B	02/16-02/19/01	DV8G41A3
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01
Lead	50.0	49.5	mg/kg	99	SW846 6010B	02/16-02/19/01	DV8G41A4
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01
Selenium	200	193	mg/kg	96	SW846 6010B	02/16-02/19/01	DV8G41A5
				Dilution Factor: 1			
				Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01

(Continued on next page)

000037

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	5.00	4.97	mg/kg	99	SW846 6010B	02/16-02/19/01	DV8G41A6
			Dilution Factor: 1				
			Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01	
Cobalt	50.0	52.1	mg/kg	104	SW846 6010B	02/16-02/19/01	DV8G41A7
			Dilution Factor: 1				
			Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01	
Copper	25.0	25.1	mg/kg	100	SW846 6010B	02/16-02/19/01	DV8G41A8
			Dilution Factor: 1				
			Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01	
Molybdenum	100	99.1	mg/kg	99	SW846 6010B	02/16-02/19/01	DV8G41A9
			Dilution Factor: 1				
			Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01	
Nickel	50.0	51.4	mg/kg	103	SW846 6010B	02/16-02/19/01	DV8G41CA
			Dilution Factor: 1				
			Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01	
Thallium	200	202	mg/kg	101	SW846 6010B	02/16-02/19/01	DV8G41CC
			Dilution Factor: 1				
			Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01	
Vanadium	50.0	50.8	mg/kg	102	SW846 6010B	02/16-02/19/01	DV8G41CD
			Dilution Factor: 1				
			Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01	
Zinc	50.0	50.7	mg/kg	101	SW846 6010B	02/16-02/19/01	DV8G41CE
			Dilution Factor: 1				
			Analysis Time...: 17:06		Analyst ID.....: 003119	Instrument ID...: M01	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000033

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1B160288 Work Order #...: DV9G51AC Matrix.....: SOLID
 LCS Lot-Sample#: E1B160000-422
 Prep Date.....: 02/16/01 Analysis Date...: 02/19/01
 Prep Batch #...: 1047422 Analysis Time...: 11:23
 Dilution Factor: 1 Instrument ID...: G01
 Analyst ID.....: 356074

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>
TPH (as Diesel)	84	(60 - 130)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Benzo (a) pyrene	90	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000033

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1B160288 Work Order #...: DWCH31AC Matrix.....: SOLID
 LCS Lot-Sample#: E1B190000-518
 Prep Date.....: 02/16/01 Analysis Date...: 02/16/01
 Prep Batch #...: 1050518 Analysis Time...: 17:39
 Dilution Factor: 1 Instrument ID...: MSG
 Analyst ID.....: 015590

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	118	(60 - 150)	SW846 8260B
Benzene	124	(70 - 140)	SW846 8260B
Trichloroethene	126	(70 - 130)	SW846 8260B
Toluene	103	(70 - 130)	SW846 8260B
Chlorobenzene	102	(70 - 130)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	113	(70 - 130)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	95	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

000040

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E1B160288 Work Order #...: DWDH61AC Matrix.....: SOLID
 LCS Lot-Sample#: E1B200000-278
 Prep Date.....: 02/19/01 Analysis Date..: 02/19/01
 Prep Batch #...: 1051278 Analysis Time..: 10:26
 Dilution Factor: 1 Instrument ID..: G16
 Analyst ID.....: 001464

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	98	(80 - 140)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a, a, a-Trifluorotoluene (TFT)	106	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: E1B150000-471 Prep Batch #...: 1046471					
Mercury	99	(85 - 115)	SW846 7471A	02/16-02/17/01 DV7PT1AC	
		Dilution Factor: 1			
		Analysis Time...: 10:32	Analyst ID.....: 021088	Instrument ID...: M04	
LCS Lot-Sample#: E1B160000-263 Prep Batch #...: 1047263					
Aluminum	96	(80 - 120)	SW846 6010B	02/16-02/19/01 DV8G41AV	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	
Arsenic	98	(75 - 115)	SW846 6010B	02/16-02/19/01 DV8G41AW	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	
Antimony	99	(75 - 115)	SW846 6010B	02/16-02/19/01 DV8G41AX	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	
Barium	101	(80 - 120)	SW846 6010B	02/16-02/19/01 DV8G41A0	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	
Cadmium	104	(80 - 120)	SW846 6010B	02/16-02/19/01 DV8G41A1	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	
Chromium	104	(85 - 120)	SW846 6010B	02/16-02/19/01 DV8G41A2	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	
Beryllium	105	(80 - 120)	SW846 6010B	02/16-02/19/01 DV8G41A3	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	
Lead	99	(80 - 120)	SW846 6010B	02/16-02/19/01 DV8G41A4	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	
Selenium	96	(70 - 115)	SW846 6010B	02/16-02/19/01 DV8G41A5	
		Dilution Factor: 1			
		Analysis Time...: 17:06	Analyst ID.....: 003119	Instrument ID...: M01	

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>		<u>WORK ORDER #</u>
Silver	99	(80 - 120)		SW846 6010B	02/16-02/19/01		DV8G41A6
		Dilution Factor: 1					
		Analysis Time...: 17:06			Analyst ID.....: 003119		Instrument ID...: M01
Cobalt	104	(80 - 120)		SW846 6010B	02/16-02/19/01		DV8G41A7
		Dilution Factor: 1					
		Analysis Time...: 17:06			Analyst ID.....: 003119		Instrument ID...: M01
Copper	100	(80 - 120)		SW846 6010B	02/16-02/19/01		DV8G41A8
		Dilution Factor: 1					
		Analysis Time...: 17:06			Analyst ID.....: 003119		Instrument ID...: M01
Molybdenum	99	(80 - 120)		SW846 6010B	02/16-02/19/01		DV8G41A9
		Dilution Factor: 1					
		Analysis Time...: 17:06			Analyst ID.....: 003119		Instrument ID...: M01
Nickel	103	(80 - 120)		SW846 6010B	02/16-02/19/01		DV8G41CA
		Dilution Factor: 1					
		Analysis Time...: 17:06			Analyst ID.....: 003119		Instrument ID...: M01
Thallium	101	(75 - 120)		SW846 6010B	02/16-02/19/01		DV8G41CC
		Dilution Factor: 1					
		Analysis Time...: 17:06			Analyst ID.....: 003119		Instrument ID...: M01
Vanadium	102	(80 - 120)		SW846 6010B	02/16-02/19/01		DV8G41CD
		Dilution Factor: 1					
		Analysis Time...: 17:06			Analyst ID.....: 003119		Instrument ID...: M01
Zinc	101	(80 - 120)		SW846 6010B	02/16-02/19/01		DV8G41CE
		Dilution Factor: 1					
		Analysis Time...: 17:06			Analyst ID.....: 003119		Instrument ID...: M01

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000043

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1B160288 Work Order #...: DV7QD1AE-MS Matrix.....: SOLID
 MS Lot-Sample #: E1B150298-004 DV7QD1AF-MSD
 Date Sampled...: 02/14/01 13:50 Date Received..: 02/15/01 17:05 MS Run #.....: 1050291
 Prep Date.....: 02/16/01 Analysis Date..: 02/16/01
 Prep Batch #...: 1050518 Analysis Time..: 20:36
 Dilution Factor: 1 Analyst ID.....: 015590 Instrument ID...: MSG

PARAMETER	SAMPLE SPIKE MEASRD			UNITS	PERCENT		
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	51.6	ug/kg	103		SW846 8260B
	ND	50.0	51.2	ug/kg	102	0.68	SW846 8260B
Benzene	ND	50.0	56.7	ug/kg	113		SW846 8260B
	ND	50.0	55.6	ug/kg	111	2.0	SW846 8260B
Trichloroethene	ND	50.0	57.2	ug/kg	114		SW846 8260B
	ND	50.0	57.9	ug/kg	116	1.2	SW846 8260B
Toluene	ND	50.0	47.4	ug/kg	95		SW846 8260B
	ND	50.0	46.2	ug/kg	92	2.5	SW846 8260B
Chlorobenzene	ND	50.0	48.2	ug/kg	96		SW846 8260B
	ND	50.0	47.6	ug/kg	95	1.2	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	106	(70 - 130)
	110	(70 - 130)
1,2-Dichloroethane-d4	93	(60 - 140)
	92	(60 - 140)
Toluene-d8	95	(70 - 130)
	95	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

Date Sampled...: 02/14/01 15:25 Date Received...: 02/15/01 17:05

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: E1B150298-007 Prep Batch #...: 1047263

Aluminum

15200	200	15900	NC	mg/kg			SW846 6010B	02/16-02/19/01	DV7QG1A1
15200	200	15700	NC	mg/kg			SW846 6010B	02/16-02/19/01	DV7QG1A2

Dilution Factor: 1

Analysis Time...: 17:57

Instrument ID...: M01

Analyst ID.....: 003119

MS Run #.....: 1047116

Arsenic

3.0	200	187		mg/kg	92		SW846 6010B	02/16-02/19/01	DV7QG1A3
3.0	200	189		mg/kg	93	1.1	SW846 6010B	02/16-02/19/01	DV7QG1A4

Dilution Factor: 1

Analysis Time...: 17:57

Instrument ID...: M01

Analyst ID.....: 003119

MS Run #.....: 1047116

Antimony

ND	50.0	12.7	N	mg/kg	25		SW846 6010B	02/16-02/19/01	DV7QG1A5
ND	50.0	11.3	N	mg/kg	23	11	SW846 6010B	02/16-02/19/01	DV7QG1A6

Dilution Factor: 1

Analysis Time...: 17:57

Instrument ID...: M01

Analyst ID.....: 003119

MS Run #.....: 1047116

Barium

87.9	200	275		mg/kg	93		SW846 6010B	02/16-02/19/01	DV7QG1A7
87.9	200	281		mg/kg	96	2.2	SW846 6010B	02/16-02/19/01	DV7QG1A8

Dilution Factor: 1

Analysis Time...: 17:57

Instrument ID...: M01

Analyst ID.....: 003119

MS Run #.....: 1047116

Cadmium

0.31	5.00	5.24		mg/kg	98		SW846 6010B	02/16-02/19/01	DV7QG1A9
0.31	5.00	5.22		mg/kg	98	0.36	SW846 6010B	02/16-02/19/01	DV7QG1CA

Dilution Factor: 1

Analysis Time...: 17:57

Instrument ID...: M01

Analyst ID.....: 003119

MS Run #.....: 1047116

Chromium

23.5	20.0	43.4		mg/kg	99		SW846 6010B	02/16-02/19/01	DV7QG1CC
23.5	20.0	42.1		mg/kg	93	3.0	SW846 6010B	02/16-02/19/01	DV7QG1CD

Dilution Factor: 1

Analysis Time...: 17:57

Instrument ID...: M01

Analyst ID.....: 003119

MS Run #.....: 1047116

(Continued on next page)

000045

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

Date Sampled...: 02/14/01 15:25 Date Received...: 02/15/01 17:05

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.48	5.00	5.40	mg/kg	98		SW846 6010B	02/16-02/19/01	DV7QG1CE
	0.48	5.00	5.43	mg/kg	99	0.55	SW846 6010B	02/16-02/19/01	DV7QG1CF
	Dilution Factor: 1								
	Analysis Time...: 17:57			Instrument ID...: M01			Analyst ID.....: 003119		
	MS Run #.....: 1047116								
Lead									
	6.0	50.0	50.9	mg/kg	90		SW846 6010B	02/16-02/19/01	DV7QG1CG
	6.0	50.0	90.4	N, * mg/kg	169	56	SW846 6010B	02/16-02/19/01	DV7QG1CH
	Dilution Factor: 1								
	Analysis Time...: 17:57			Instrument ID...: M01			Analyst ID.....: 003119		
	MS Run #.....: 1047116								
Selenium									
	ND	200	181	mg/kg	91		SW846 6010B	02/16-02/19/01	DV7QG1CJ
	ND	200	184	mg/kg	92	1.3	SW846 6010B	02/16-02/19/01	DV7QG1CK
	Dilution Factor: 1								
	Analysis Time...: 17:57			Instrument ID...: M01			Analyst ID.....: 003119		
	MS Run #.....: 1047116								
Silver									
	ND	5.00	4.55	mg/kg	91		SW846 6010B	02/16-02/19/01	DV7QG1CL
	ND	5.00	4.72	mg/kg	94	3.6	SW846 6010B	02/16-02/19/01	DV7QG1CM
	Dilution Factor: 1								
	Analysis Time...: 17:57			Instrument ID...: M01			Analyst ID.....: 003119		
	MS Run #.....: 1047116								
Cobalt									
	6.6	50.0	55.3	mg/kg	97		SW846 6010B	02/16-02/19/01	DV7QG1CN
	6.6	50.0	55.8	mg/kg	98	0.93	SW846 6010B	02/16-02/19/01	DV7QG1CP
	Dilution Factor: 1								
	Analysis Time...: 17:57			Instrument ID...: M01			Analyst ID.....: 003119		
	MS Run #.....: 1047116								
Copper									
	23.6	25.0	51.1	mg/kg	110		SW846 6010B	02/16-02/19/01	DV7QG1CQ
	23.6	25.0	41.1	N mg/kg	70	22	SW846 6010B	02/16-02/19/01	DV7QG1CR
	Dilution Factor: 1								
	Analysis Time...: 17:57			Instrument ID...: M01			Analyst ID.....: 003119		
	MS Run #.....: 1047116								
Molybdenum									
	0.57	100	91.0	mg/kg	90		SW846 6010B	02/16-02/19/01	DV7QG1CT
	0.57	100	91.4	mg/kg	91	0.45	SW846 6010B	02/16-02/19/01	DV7QG1CU
	Dilution Factor: 1								
	Analysis Time...: 17:57			Instrument ID...: M01			Analyst ID.....: 003119		
	MS Run #.....: 1047116								

000046

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

Date Sampled...: 02/14/01 15:25 Date Received...: 02/15/01 17:05

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel	13.4	50.0	61.6	mg/kg	96		SW846 6010B	02/16-02/19/01	DV7QG1CV
	13.4	50.0	61.1	mg/kg	95	0.83	SW846 6010B	02/16-02/19/01	DV7QG1CW
				Dilution Factor: 1					
				Analysis Time...: 17:57		Instrument ID...: M01		Analyst ID.....: 003119	
				MS Run #.....: 1047116					
Thallium	ND	200	191	mg/kg	96		SW846 6010B	02/16-02/19/01	DV7QG1CX
	ND	200	192	mg/kg	96	0.52	SW846 6010B	02/16-02/19/01	DV7QG1C0
				Dilution Factor: 1					
				Analysis Time...: 17:57		Instrument ID...: M01		Analyst ID.....: 003119	
				MS Run #.....: 1047116					
Vanadium	40.5	50.0	88.0	mg/kg	95		SW846 6010B	02/16-02/19/01	DV7QG1C1
	40.5	50.0	89.0	mg/kg	97	1.1	SW846 6010B	02/16-02/19/01	DV7QG1C2
				Dilution Factor: 1					
				Analysis Time...: 17:57		Instrument ID...: M01		Analyst ID.....: 003119	
				MS Run #.....: 1047116					
Zinc	44.3	50.0	96.5	mg/kg	104		SW846 6010B	02/16-02/19/01	DV7QG1C3
	44.3	50.0	89.6	mg/kg	90	7.4	SW846 6010B	02/16-02/19/01	DV7QG1C4
				Dilution Factor: 1					
				Analysis Time...: 17:57		Instrument ID...: M01		Analyst ID.....: 003119	
				MS Run #.....: 1047116					

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

000047

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1B160288 Work Order #...: DV7Q41AE-MS Matrix.....: SOLID
 MS Lot-Sample #: E1B150298-022 DV7Q41AF-MSD
 Date Sampled...: 02/15/01 09:55 Date Received...: 02/15/01 17:05 MS Run #.....: 1047232
 Prep Date.....: 02/16/01 Analysis Date...: 02/19/01
 Prep Batch #...: 1047422 Analysis Time...: 13:54
 Dilution Factor: 1 Analyst ID.....: 356074 Instrument ID..: G01

PARAMETER	SAMPLE SPIKE MEASRD			UNITS	PERCENT		METHOD
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	
TPH (as Diesel)	ND	250	190	mg/kg	76		SW846 8015B
	ND	250	204	mg/kg	81	6.7	SW846 8015B

SURROGATE	PERCENT		RECOVERY
	RECOVERY	LIMITS	
Benzo (a) pyrene	79	(60 - 130)	
	84	(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1B160288 Work Order #...: DV7RD1AE-MS Matrix.....: SOLID
 MS Lot-Sample #: E1B150298-028 DV7RD1AF-MSD
 Date Sampled...: 02/15/01 12:25 Date Received...: 02/15/01 17:05 MS Run #.....: 1051151
 Prep Date.....: 02/19/01 Analysis Date...: 02/19/01
 Prep Batch #...: 1051278 Analysis Time...: 16:08
 Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID...: G16

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCENT		METHOD
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	
TPH (as Gasoline)	ND	5.00	5.43	mg/kg	109		SW846 8015B
	ND	5.00	5.30	mg/kg	106	2.4	SW846 8015B

SURROGATE	PERCENT		RECOVERY
	RECOVERY	RECOVERY	LIMITS
a, a, a-Trifluorotoluene (TFT)	122		(60 - 130)
	114		(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

Date Sampled...: 02/13/01 09:55 Date Received...: 02/14/01 17:00

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>

MS Lot-Sample #: E1B140272-002 Prep Batch #...: 1046471

Mercury	110	(80 - 120)			SW846 7471A	02/16-02/17/01	DV5NN1C3
	103	(80 - 120)	6.6	(0-20)	SW846 7471A	02/16-02/17/01	DV5NN1C4

Dilution Factor: 1

Analysis Time...: 10:35

Instrument ID...: M04

Analyst ID.....: 021088

MS Run #.....: 1046229

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000050

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1B160288 Work Order #...: DV7QD1AE-MS Matrix.....: SOLID
 MS Lot-Sample #: E1B150298-004 DV7QD1AF-MSD
 Date Sampled...: 02/14/01 13:50 Date Received...: 02/15/01 17:05 MS Run #.....: 1050291
 Prep Date.....: 02/16/01 Analysis Date...: 02/16/01
 Prep Batch #...: 1050518 Analysis Time...: 20:36
 Dilution Factor: 1 Analyst ID.....: 015590 Instrument ID..: MSG

PARAMETER	PERCENT	RECOVERY	RPD	RPD	METHOD
	RECOVERY	LIMITS		LIMITS	
1,1-Dichloroethene	103	(60 - 150)	0.68	(0-30)	SW846 8260B
	102	(60 - 150)			SW846 8260B
Benzene	113	(70 - 140)	2.0	(0-30)	SW846 8260B
	111	(70 - 140)			SW846 8260B
Trichloroethene	114	(70 - 130)	1.2	(0-30)	SW846 8260B
	116	(70 - 130)			SW846 8260B
Toluene	95	(70 - 130)	2.5	(0-30)	SW846 8260B
	92	(70 - 130)			SW846 8260B
Chlorobenzene	96	(70 - 130)	1.2	(0-30)	SW846 8260B
	95	(70 - 130)			SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	106	(70 - 130)
	110	(70 - 130)
1,2-Dichloroethane-d4	93	(60 - 140)
	92	(60 - 140)
Toluene-d8	95	(70 - 130)
	95	(70 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000051

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

Date Sampled...: 02/14/01 15:25 Date Received...: 02/15/01 17:05

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1B150298-007 Prep Batch #...: 1047263							
Aluminum	NC	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1A1
	NC	(80 - 120)		(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1A2
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Arsenic	92	(75 - 115)			SW846 6010B	02/16-02/19/01	DV7QG1A3
	93	(75 - 115)	1.1	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1A4
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Antimony	25 N	(75 - 115)			SW846 6010B	02/16-02/19/01	DV7QG1A5
	23 N	(75 - 115)	11	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1A6
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Barium	93	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1A7
	96	(80 - 120)	2.2	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1A8
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Cadmium	98	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1A9
	98	(80 - 120)	0.36	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CA
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Chromium	99	(85 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CC
	93	(85 - 120)	3.0	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CD
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Beryllium	98	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CE
	99	(80 - 120)	0.55	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CF
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							

(Continued on next page)

000052

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

Date Sampled...: 02/14/01 15:25 Date Received...: 02/15/01 17:05

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lead	90	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CG
	169 N,*	(80 - 120)	56	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CH
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Selenium	91	(70 - 115)			SW846 6010B	02/16-02/19/01	DV7QG1CJ
	92	(70 - 115)	1.3	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CK
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Silver	91	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CL
	94	(80 - 120)	3.6	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CM
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Cobalt	97	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CN
	98	(80 - 120)	0.93	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CP
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Copper	110	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CQ
	70 N	(80 - 120)	22	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CR
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Molybdenum	90	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CT
	91	(80 - 120)	0.45	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CU
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Nickel	96	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CV
	95	(80 - 120)	0.83	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CW
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Thallium	96	(75 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1CX
	96	(75 - 120)	0.52	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1CO
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							

(Continued on next page)

000053

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1B160288

Matrix.....: SOLID

Date Sampled...: 02/14/01 15:25 Date Received...: 02/15/01 17:05

PARAMETER	PERCENT	RECOVERY	RPD		METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD	LIMITS		ANALYSIS DATE	ORDER #
Vanadium	95	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1C1
	97	(80 - 120)	1.1	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1C2
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							
Zinc	104	(80 - 120)			SW846 6010B	02/16-02/19/01	DV7QG1C3
	90	(80 - 120)	7.4	(0-25)	SW846 6010B	02/16-02/19/01	DV7QG1C4
Dilution Factor: 1							
Analysis Time...: 17:57 Instrument ID...: M01 Analyst ID.....: 003119							
MS Run #.....: 1047116							

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

000054

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1B160288 Work Order #...: DV7Q41AE-MS Matrix.....: SOLID
 MS Lot-Sample #: E1B150298-022 DV7Q41AF-MSD
 Date Sampled...: 02/15/01 09:55 Date Received...: 02/15/01 17:05 MS Run #.....: 1047232
 Prep Date.....: 02/16/01 Analysis Date...: 02/19/01
 Prep Batch #...: 1047422 Analysis Time...: 13:54
 Dilution Factor: 1 Analyst ID.....: 356074 Instrument ID...: G01

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Diesel)	76	(60 - 130)			SW846 8015B
	81	(60 - 130)	6.7	(0-35)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Benzo(a)pyrene	79	(60 - 130)
	84	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

000055

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E1B160288 Work Order #...: DV7RD1AE-MS Matrix.....: SOLID
 MS Lot-Sample #: E1B150298-028 DV7RD1AF-MSD
 Date Sampled...: 02/15/01 12:25 Date Received...: 02/15/01 17:05 MS Run #.....: 1051151
 Prep Date.....: 02/19/01 Analysis Date...: 02/19/01
 Prep Batch #...: 1051278 Analysis Time...: 16:08
 Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID...: G16

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	109	(80 - 140)			SW846 8015B
	106	(80 - 140)	2.4	(0-40)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a, a, a-Trifluorotoluene (TFT)	122	(60 - 130)
	114	(60 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

Extended Raw Data

Level III

Project # EIR 160288

Analysis: 82608

000057

8260B INITIAL CALIBRATION DATA

DATE ANALYZED: 1/29/01
INSTRUMENT ID: MSG
SAMPLES: EΦB 160288

Low Soil

GC/MS VOA Run Log

Batch ID: _____

EPA 524.2 EPA 624 SW8260B [SOP: CORP-MS-0002 Rev 2] 5030B 5035

Inst. ID	MSG	EM Set:	1506	Tune File:	6FB	Seq File:	012986 (0129AC)					
Init. Cal ID	8260 BGM	Work Order #	18260BES	AS #	Matrix	Sample Wt/Vol	Dil.	I.S.	Run	Rerun	pH	Comments
Inj. Time	Analyst	File ID										
7:31	6FB	GT1596	50mg 6FB	-	-	1ul	-	130	N			1353-2
7:36		97	↓	-	-	↓	-	145	✓			↓
7:46		6S2671	50µg 8260B STD	1	S	5g	1	214	N			1387-1,91-1,91-2
9:07		GT1598	50mg 6FB	-	-	1ul	-	123	✓			1353-2
9:25		6S2672	50µg 8260B STD	1	S	5g	1	190	N			1387-1,91-1,91-2
10:15		73	↓	1	S	↓	1	197	N			↓
13:56		GT1599	50mg 6FB	-	-	1ul	-	104	N			1353-2
13:44		GT1600	↓	-	-	1ul	-	99	✓			↓
13:55		6S2674	50µg 8260B STD	1	L	5ml	1	189	✓			1383-2,91-1,90-2 *
14:28		75	↓	2	L	↓	1	165	N			↓
15:01		76	20	3	L	↓	1	185	✓			↓
15:24		77	50	4	L	↓	1	189	✓			↓
16:07		78	100	5	L	↓	1	195	✓			89-2 *
16:40		79	100	6	L	↓	1	223	✓			↓
17:13		6-10965	MS	7	L	↓	1	213	-			↓
17:46		66	Second Source	8	L	↓	1	205	✓			1395-1 *
18:19		6S2680	50µg 8260B STD	9	S	5g	1	195	N			1383-2,91-1,90-2
18:52		81	5	10	L	↓	1	195	✓			↓
19:25		82	20	11	L	↓	1	195	✓			↓
19:58		83	20	12	L	↓	1	207	✓			89-2
20:31		84	100	13	L	↓	1	194	✓			↓
21:04		85	100	14	L	↓	1	213	✓			↓
21:27		6-10967	MS	15	L	5ml	1	219	-			↓
22:10	✓	6-10968	Second Source	16	S	5g	1	207	✓			1395-1
14:54	✓	6-10969	200µg Duplicates	1	L	5ml	1	245	-			

* MeOH added to 100ul Total

6875 11/31/01

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2001 12:58
 End Cal Date : 29-JAN-2001 21:04
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.M
 Cal Date : 30-Jan-2001 16:36 beckmang
 Curve Type : Average

Calibration File Names:

Level 1: \\SANP2008\D\chem\mg.i\0129AG.B\GS2681.D
 Level 2: \\SANP2008\D\chem\mg.i\0129AG.B\GS2682.D
 Level 3: \\SANP2008\D\chem\mg.i\0129AG.B\GS2683.D
 Level 4: \\SANP2008\D\chem\mg.i\0129AG.B\GS2684.D
 Level 5: \\SANP2008\D\chem\mg.i\0129AG.B\GS2685.D

Compound	5.000	20.000	50.000	100.000	400.000	RPF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
1 Dichlorodifluoromethane	0.64829	0.82485	0.69946	0.75035	0.59806	0.70420	12.521
2 Vinyl chloride (*)	0.20628	0.22772	0.19422	0.21499	0.18101	0.20484	3.831
3 Chloromethane (**)	0.13445	0.17850	0.15363	0.16961	0.12692	0.15282	14.469
4 Bromomethane	0.19493	0.19661	0.16728	0.14925	0.08508	0.15863	28.772
5 Chloroethane	0.11123	0.14817	0.12615	0.10891	0.04974	0.10884	33.586 <-
6 Trichlorofluoromethane	1.01536	1.17619	1.02927	1.06281	0.20545	0.89781	43.680 <-
7 Acrolein	0.01585	0.01937	0.01733	0.02015	0.01778	0.01810	9.384
8 1,1-Dichloroethene(*)	0.25054	0.30441	0.27319	0.29054	0.23900	0.27154	9.992
9 1,1,2-Trichlorotrifluoroethane	0.41361	0.58376	0.48669	0.55224	0.40507	0.48927	16.419
10 Acetone	0.09294	0.08668	0.07563	0.07941	0.06398	0.07973	13.848
11 Iodomethane	0.30587	0.48358	0.49632	0.61664	0.46973	0.47443	23.382
12 Carbon disulfide	0.64604	0.73544	0.66769	0.72253	0.62099	0.67854	7.242
13 Methylene chloride	0.25674	0.30017	0.27148	0.29407	0.25846	0.27518	7.263
14 t-Butanol	0.05671	0.06178	0.05805	0.05559	0.04285	0.05500	13.058
15 trans-1,2-Dichloroethene	0.27654	0.34045	0.30481	0.31856	0.28728	0.30593	8.285
16 Acrylonitrile	0.04733	0.05289	0.04539	0.05013	0.04404	0.04796	7.471
17 Methyl-tert-butyl ether [MTBE]	1.02273	1.09183	0.98398	0.98180	0.79973	0.97601	11.079
18 1,1-Dichloroethane (**)	0.60818	0.67205	0.61505	0.63919	0.57741	0.62237	5.696
19 Vinyl acetate	0.61535	0.65946	0.59679	0.60580	0.53119	0.60172	7.677
20 Isopropyl ether	0.87525	0.93262	0.84867	0.87180	0.78040	0.86175	6.381
21 2,2-Dichloropropane	0.84187	0.94690	0.84850	0.82425	0.64063	0.82043	13.571
22 Tert-butyl ethyl ether	1.11572	1.20688	1.10919	1.14579	0.97864	1.11124	7.522
23 cis-1,2-Dichloroethene	0.31197	0.37187	0.34100	0.34532	0.30030	0.31409	8.508
24 2-Butanone	0.14078	0.13939	0.11942	0.11688	0.09957	0.11321	13.984
25 Bromochloromethane	0.20063	0.24090	0.21738	0.21774	0.19582	0.21449	8.286
26 Chloroform (*)	0.92636	0.97929	0.89196	0.92387	0.71477	0.88725	11.427

GFB 1/31/01
 pu 2/1/01

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2001 12:58
 End Cal Date : 29-JAN-2001 21:04
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.M
 Cal Date : 30-Jan-2001 16:36 beckmang
 Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	50.000 Level 3	100.000 Level 4	400.000 Level 5	RRF	% RSD
27 Tetrahydrofuran	0.04761	0.06772	0.06579	0.06894	0.05785	0.06139	14.494
M 28 1,2-Dichloroethene (total)	0.29425	0.35616	0.32291	0.33194	0.29379	0.31961	4.235
30 1,1,1-Trichloroethane	0.97435	1.08616	0.97931	1.01553	0.73334	0.95773	13.264
31 Carbon Tetrachloride	0.90181	1.02028	0.93576	0.97179	0.69936	0.90580	13.632
32 1,1-Dichloropropene	0.57531	0.66937	0.59669	0.61834	0.47641	0.58703	12.119
34 1,2-Dichloroethane-d4 2nd	0.04337	0.09299	0.09411	0.10404	0.08512	0.08192	28.177
35 Benzene	0.79312	0.84890	0.77421	0.82189	0.67250	0.78212	8.634
36 1,2-Dichloroethane	0.75125	0.77474	0.70042	0.72388	0.56048	0.70215	11.963
37 Tert-amyl methyl ether	1.05386	1.09099	1.01815	1.06922	0.86207	1.01886	8.988
39 Trichloroethene	0.41437	0.51046	0.47243	0.50824	0.41747	0.46459	10.103
40 1,2-Dichloropropane(*)	0.31503	0.33542	0.31066	0.33464	0.28426	0.31500	✓ 6.640
41 Dibromomethane	0.36516	0.39849	0.36356	0.37922	0.28160	0.35760	12.512
42 Bromodichloromethane	0.93063	0.97922	0.90334	0.95852	0.74049	0.90244	10.522
43 1-Bromo-2-chloroethane	0.57817	0.53475	0.50018	0.56199	0.47280	0.52958	8.191
44 2-Chloroethylvinyl ether	0.05104	0.07383	0.07343	0.08022	0.06699	0.06910	16.106
45 cis-1,3-Dichloropropene	0.57015	0.63394	0.58038	0.63401	0.52286	0.58827	7.994
46 4-Methyl-2-pentanone	0.31703	0.34473	0.30504	0.32508	0.24821	0.30802	11.823
48 Toluene (*)	1.17169	1.24834	1.15164	1.25803	1.06858	1.17966	✓ 6.573
49 trans-1,3-Dichloropropene	0.66717	0.73276	0.69074	0.76119	0.65853	0.70208	6.241
50 1,1,2-Trichloroethane	0.39636	0.44702	0.40972	0.44637	0.37873	0.41564	7.316
51 Tetrachloroethene	0.44652	0.59313	0.55053	0.60099	0.48167	0.53457	12.772
52 1,3-Dichloropropane	0.72359	0.74570	0.67210	0.72673	0.60856	0.69534	8.004
53 2-Hexanone	0.27308	0.28783	0.25254	0.28343	0.22813	0.26500	9.322
54 Dibromochloromethane	0.89796	0.98250	0.92416	0.98315	0.76747	0.91105	9.704
55 1,2-Dibromoethane	0.66142	0.69825	0.67067	0.71900	0.59399	0.68366	7.110
57 Chlorobenzene (**)	0.95200	1.02474	0.94526	1.02981	0.88365	✓ 0.96709	5.316
58 1,1,1,2-Tetrachloroethane	0.62828	0.70467	0.65692	0.69320	0.53315	0.64324	10.653
59 Ethylbenzene (*)	0.41939	0.49909	0.44865	0.49000	0.39083	0.44959	✓ 10.222
60 m,p-Xylenes	0.52931	0.61081	0.55667	0.58577	0.46796	0.55011	10.031
61 o-Xylene	0.50904	0.59330	0.55697	0.59115	0.48894	0.54793	8.653
62 Styrene	0.84533	0.96797	0.90119	0.96683	0.80099	0.89946	8.238
M 63 Xylenes (total)	0.52255	0.60498	0.55677	0.58756	0.47405	0.54915	9.486
64 Bromoform (**)	0.65123	0.76432	0.76533	0.79298	0.61031	✓ 0.71339	11.264

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2001 12:58
 End Cal Date : 29-JAN-2001 21:04
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\SANP2008\D\chem\mg.i\0129AG.B\8250BGS.M
 Cal Date : 30-Jan-2001 16:36 beckmang
 Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	50.000 Level 3	100.000 Level 4	400.000 Level 5	RRF	% RSD
65 Isopropylbenzene	1.71077	2.02949	1.85957	1.98499	1.54073	1.32511	11.042
66 4-Bromofluorobenzene-2nd	0.76046	0.98913	0.92409	1.05554	0.97041	0.93993	11.757
68 Bromobenzene	0.77510	0.93890	0.36652	0.95942	0.91761	0.99131	8.264
69 1,1,2,2-Tetrachloroethane(**)	0.91684	0.97262	0.88413	0.96234	0.92393	0.93297	3.826
70 1,2,3-Trichloropropane	0.31210	0.38723	0.35931	0.38041	0.33833	0.35548	8.693
71 n-Propylbenzene	2.66471	2.88586	2.62760	2.85323	2.72207	2.75069	4.151
72 2-Chlorotoluene	0.57830	0.68290	0.59849	0.66370	0.64230	0.63414	7.064
73 4-Chlorotoluene	0.55279	0.67712	0.62192	0.69654	0.63542	0.63676	8.771
74 1,3,5-Trimethylbenzene	2.16053	2.53638	2.23006	2.41636	2.04151	2.27697	8.726
75 tert-Butylbenzene	2.13477	2.55162	2.32926	2.57267	2.29691	2.37705	7.761
76 1,2,4-Trimethylbenzene	2.19022	2.53800	2.26840	2.47936	2.19038	2.33327	7.054
77 sec-Butylbenzene	2.46971	3.25949	2.84420	3.19357	2.88854	2.92110	10.775
78 1,3-Dichlorobenzene	1.19097	1.38306	1.26440	1.40743	1.30716	1.31060	6.726
80 1,4-Dichlorobenzene	1.35005	1.60102	1.41858	1.55483	1.26607	1.43811	9.704
81 p-Isopropyltoluene	2.08496	2.81898	2.47410	2.71408	2.14519	2.44746	13.437
82 1,2-Dichlorobenzene	1.26037	1.48874	1.35747	1.47134	1.32807	1.38120	7.027
83 n-Butylbenzene	1.76530	2.49797	2.15917	2.46677	2.20144	2.21813	13.316
84 1,2-Dibromo-3-chloropropane	0.31469	0.40137	0.38825	0.43585	0.43834	0.39570	12.687
85 1,2,4-Trichlorobenzene	0.99506	1.29401	1.16094	1.31799	1.20901	1.19540	10.767
86 Hexachlorobutadiene	0.62868	1.10091	0.93097	1.09421	0.78916	0.90879	22.319
87 Napthalene	2.00952	2.14759	1.89853	2.11611	1.78494	1.99134	7.596
88 1,2,3-Trichlorobenzene	1.03239	1.24396	1.12579	1.28427	1.09862	1.15702	9.030
\$ 29 Dibromofluoromethane	0.75983	0.79907	0.73426	0.82000	0.62397	0.74743	10.255
\$ 33 1,2-Dichloroethane-d4	0.63475	0.70162	0.64042	0.67988	0.52744	0.53682	10.544
\$ 47 Toluene-d8	0.99980	1.17886	1.08765	1.21917	0.99162	1.09543	9.381
\$ 67 4-Bromofluorobenzene	1.21924	1.42532	1.31359	1.51059	1.40325	1.37440	8.114

INITIAL CALIBRATION REPORT

Instrument ID: mg.i
 Lab File ID: GS2685.D
 Analysis Type: SOIL

Injection Date: 29-JAN-2001 21:04
 Lab Sample ID: 400 PPB 8260B
 Method File: \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.

COMPOUND	%RSD
Dichlorodifluoromethane	12.5
Vinyl chloride (*)	8.8
Chloromethane (**)	14.5
Bromomethane	28.8
Chloroethane	33.6
Trichlorofluoromethane	43.7
Acrolein	9.4
1,1,2-Trichlorotrifluoroethan	16.4
1,1-Dichloroethene(*)	10.0
Iodomethane	23.4
Acetone	13.8
Carbon disulfide	7.2
Methylene chloride	7.3
trans-1,2-Dichloroethene	8.3
Acrylonitrile	8.3
Methyl-tert-butyl ether(MTBE)	11.1
t-Butanol	13.1
1,1-Dichloroethane (**)	5.7
Vinyl acetate	7.7
Isopropyl ether	6.4
Tert-butyl ethyl ether	7.5
2,2-Dichloropropane	13.6
cis-1,2-Dichloroethene	8.5
2-Butanone	14.0
Bromochloromethane	8.3
Tetrahydrofuran	14.5
Chloroform (*)	11.4
1,2-Dichloroethene (total)	8.3
1,1,1-Trichloroethane	13.9
Dibromofluoromethane	10.3
Carbon Tetrachloride	13.6
1,1-Dichloropropene	12.1
1,2-Dichloroethane-d4	10.5
1,2-Dichloroethane-d4 2nd	28.2
Benzene	8.6
1,2-Dichloroethane	12.0
Tert-amyl methyl ether	9.0
Trichloroethene	10.1
1,2-Dichloropropane(*)	6.6

INITIAL CALIBRATION REPORT

Instrument ID: mg.i
 Lab File ID: GS2685.D
 Analysis Type: SOIL

Injection Date: 29-JAN-2001 21:04
 Lab Sample ID: 400 PPB 8260B
 Method File: \\SANP2008\D\chem\mg.i\0129AG.B\8

COMPOUND	%RSD
Dibromomethane	12.5
Bromodichloromethane	10.5
1-Bromo-2-chloroethane	8.2
2-Chloroethylvinyl ether	16.1
cis-1,3-Dichloropropene	8.0
4-Methyl-2-pentanone	11.8
Toluene-d8	9.4
Toluene (*)	6.6
trans-1,3-Dichloropropene	6.2
1,1,2-Trichloroethane	7.3
Tetrachloroethene	12.3
1,3-Dichloropropane	8.0
2-Hexanone	9.3
Dibromochloromethane	9.7
1,2-Dibromoethane	7.1
Chlorobenzene (**)	6.3
1,1,1,2-Tetrachloroethane	10.7
Ethylbenzene (*)	10.2
m,p-Xylenes	10.0
o-Xylene	8.7
Styrene	8.2
Xylenes (total)	9.5
Bromoform (**)	11.3
Isopropylbenzene	11.0
4-Bromofluorobenzene-2nd	11.8
4-Bromofluorobenzene	8.1
Bromobenzene	8.3
1,1,2,2-Tetrachloroethane(**)	3.8
1,2,3-Trichloropropane	8.7
n-Propylbenzene	4.2
2-Chlorotoluene	7.1
4-Chlorotoluene	8.8
1,3,5-Trimethylbenzene	8.7
tert-Butylbenzene	7.8
1,2,4-Trimethylbenzene	7.1
sec-Butylbenzene	10.8
1,3-Dichlorobenzene	6.7
p-Isopropyltoluene	13.4
1,4-Dichlorobenzene	9.7

Data File: \\SANP2008\D\chem\mg.i\0129AG.B\GS2685.D
Report Date: 01/30/2001

INITIAL CALIBRATION REPORT

Instrument ID: mg.i
Lab File ID: GS2685.D
Analysis Type: SOIL

Injection Date: 29-JAN-2001 21:04
Lab Sample ID: 400 PPB 8260B
Method File: \\SANP2008\D\chem\mg.i\0129AG.B\8

COMPOUND	%RSD
1,2-Dichlorobenzene	7.0
n-Butylbenzene	13.3
1,2-Dibromo-3-chloropropane	12.7
1,2,4-Trichlorobenzene	10.8
Hexachlorobutadiene	22.3
Napthalene	7.6
1,2,3-Trichlorobenzene	9.0

The average of all %RSD's in the initial calibration is 11.2

GFB 1/31/01
pw 2/1/01

Date : 29-JAN-2001 13:44

Client ID:

Instrument: mg.i

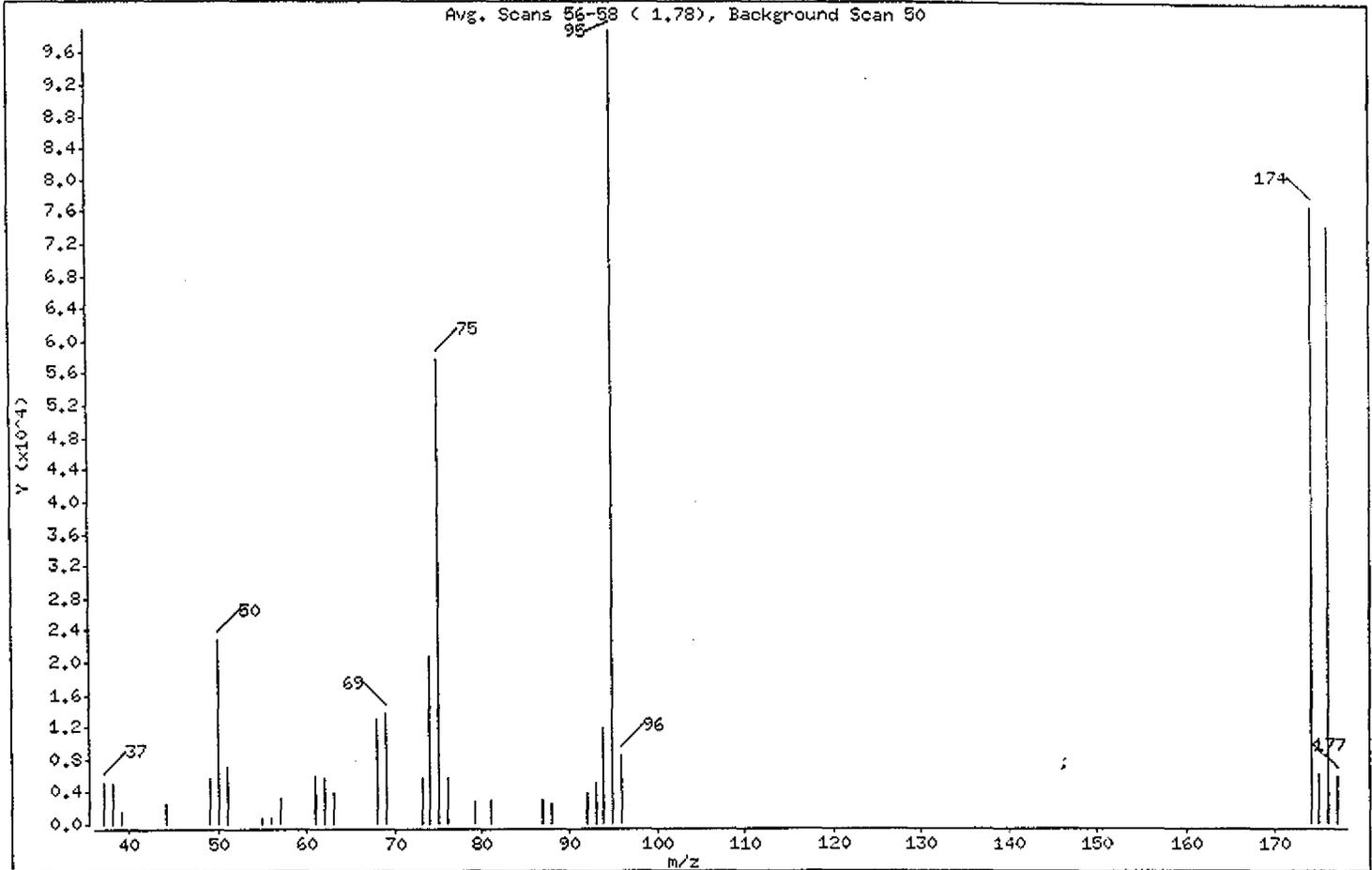
Sample Info: 50ng bfb,,,,,,bfb.M

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.99
75	30.00 - 60.00% of mass 95	58.42
96	5.00 - 9.00% of mass 95	8.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.65
175	5.00 - 9.00% of mass 174	6.10 (7.86)
176	95.00 - 101.00% of mass 174	75.22 (96.87)
177	5.00 - 9.00% of mass 176	5.91 (7.86)

GFB 1/31/01
 pke 2/1/01

STL Los Angeles

Data file : \\SANP2008\D\CHEM\MG.I\0129AG.B\GT1600.D
 Lab Smp Id:
 Inj Date : 29-JAN-2001 13:44
 Operator : GFB Inst ID: mg.i
 Smp Info : 50ng bfb,,,,,bfb.M
 Misc Info : 1353-2,,,3,all.SUB
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0129AG.B\BFB.M
 Meth Date : 23-May-2000 08:19 gradyc Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.00 Sample Matrix: WATER
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * Vf * VI

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume

CONCENTRATIONS							
RT	EXP RT (REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
			ON-COL (ug/L)	FINAL (ug/L)			
1 Bromofluorobenzene CAS #: 460-00-4							
1.7760	1.8000 (0.000)	95	98816		0.00- 100.00	100.00	
1.7760	1.8000 (0.000)	50	22717		15.00- 40.00	22.99	
1.7760	1.8000 (0.000)	75	57731		30.00- 60.00	58.42	
1.7760	1.8000 (0.000)	96	8303		5.00- 9.00	8.40	
1.7760	1.8000 (0.000)	173	0		0.00- 2.00	0.00	
1.7760	1.8000 (0.000)	174	76735		50.00- 0.00	77.65	
1.7760	1.8000 (0.000)	175	6031		5.00- 9.00	7.86	
1.7760	1.8000 (0.000)	176	74330		95.00- 101.00	96.37	
1.7760	1.8000 (0.000)	177	5841		5.00- 9.00	7.35	

Date : 29-JAN-2001 13:44

Client ID:

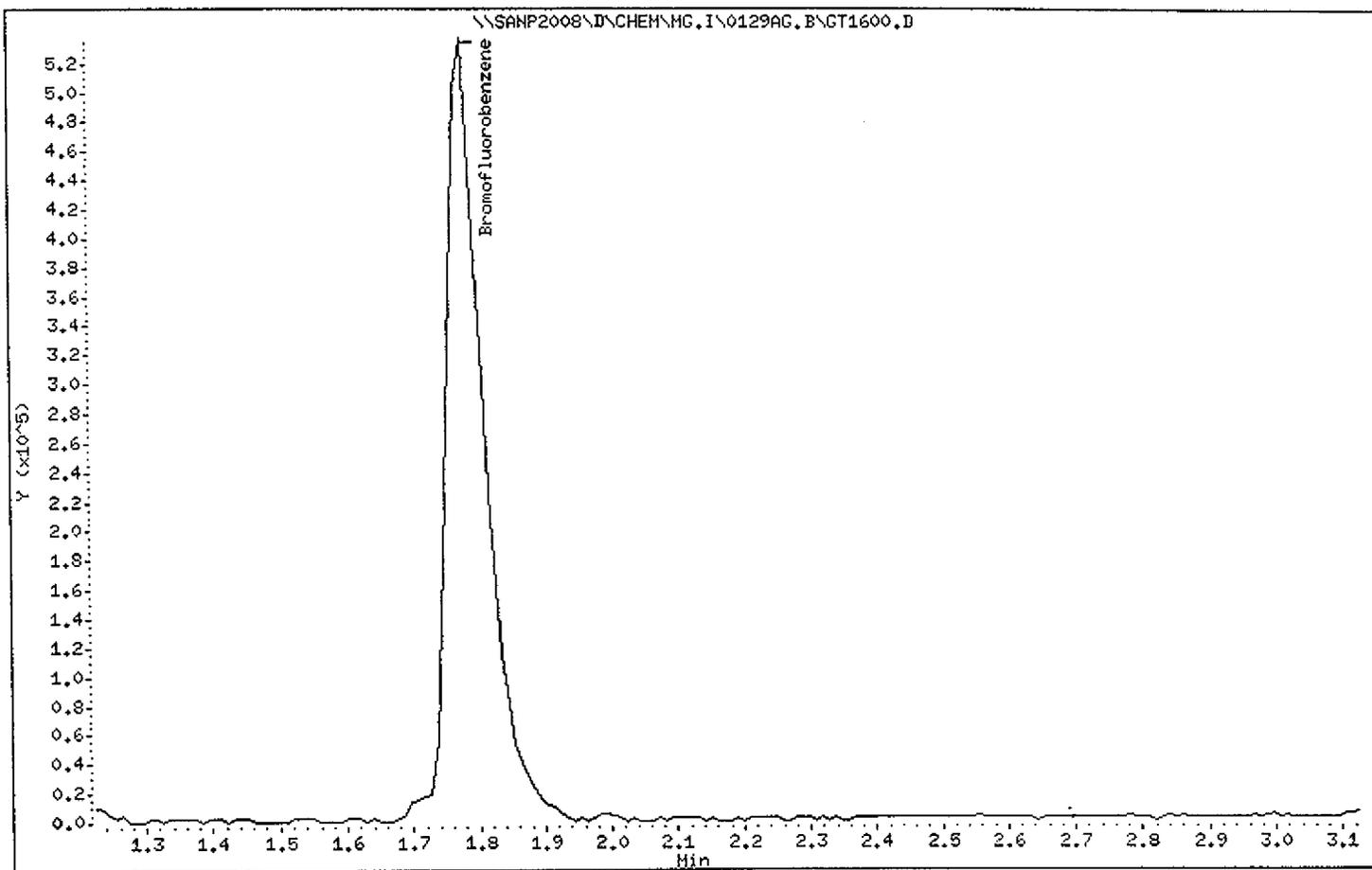
Instrument: mg.i

Sample Info: 50ng bfb,,,,,bfb.M

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53



Date : 29-JAN-2001 13:44

Client ID:

Instrument: mg.i

Sample Info: 50ng bfb,,,,,,bfb.M

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53

Data File: GT1600.D

Spectrum: Avg. Scans 56-58 (1.78), Background Scan 50

Location of Maximum: 95.00

Number of points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	5131	57.00	3230	76.00	5658	96.00	9303
38.00	4952	61.00	5910	79.00	2831	174.00	76728
39.00	1676	62.00	5760	81.00	3011	175.00	6031
44.00	2482	63.00	3799	87.00	2396	176.00	74323
49.00	5773	68.00	12973	88.00	2391	177.00	5541
50.00	22712	69.00	13626	92.00	3751		
51.00	7014	73.00	5574	93.00	5040		
55.00	741	74.00	20744	94.00	11756		
56.00	751	75.00	57728	95.00	98816		

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i
 Lab File ID: GS2681.D
 Lab Smp Id: 5 PPB 8260B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: GFB
 Method File: \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Misc Info: 1393-2;91-1;90-2,,5,,1,1-8260B.SUB

Calibration Date: 29-JAN-2001
 Calibration Time: 19:58
 Level: LOW
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	2070729	1035365	4141458	1945305	-6.06
56 Chlorobenzene-d5	1827581	913791	3655162	1698547	-7.06
79 1,4-Dichlorobenze	1341088	670544	2682176	1206433	-10.04

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.09	6.59	7.59	7.08	-0.12
56 Chlorobenzene-d5	12.58	12.08	13.08	12.58	0.01
79 1,4-Dichlorobenze	17.22	16.72	17.72	17.21	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i
 Lab File ID: GS2682.D
 Lab Smp Id: 20 PPB 8260B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: GFB
 Method File: \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Misc Info: 1393-2;91-1;90-2,,5,,1,1-8260B.SUB

Calibration Date: 29-JAN-2001
 Calibration Time: 19:58
 Level: LOW
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	2070729	1035365	4141458	1951433	-5.76
56 Chlorobenzene-d5	1827581	913791	3655162	1714731	-6.17
79 1,4-Dichlorobenze	1341088	670544	2682176	1240020	-7.54

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.09	6.59	7.59	7.08	-0.13
56 Chlorobenzene-d5	12.58	12.08	13.08	12.57	-0.07
79 1,4-Dichlorobenze	17.22	16.72	17.72	17.20	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i
 Lab File ID: GS2683.D
 Lab Smp Id: 50 PPB 8260B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: GFB
 Method File: \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Misc Info: 1393-2;91-1;89-2,,5,,1,1-8260B.SUB

Calibration Date: 29-JAN-2001
 Calibration Time: 19:58
 Level: LOW
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	2070729	1035365	4141458	2070729	0.00
56 Chlorobenzene-d5	1827581	913791	3655162	1827581	0.00
79 1,4-Dichlorobenze	1341088	670544	2682176	1341088	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.09	6.59	7.59	7.09	0.00
56 Chlorobenzene-d5	12.58	12.08	13.08	12.58	0.00
79 1,4-Dichlorobenze	17.22	16.72	17.72	17.22	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i
 Lab File ID: GS2684.D
 Lab Smp Id: 100 PPB 8260B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: GFB
 Method File: \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Misc Info: 1393-2;91-1;89-2,,5,,1,1-8260B.SUB

Calibration Date: 29-JAN-2001
 Calibration Time: 19:58
 Level: LOW
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	2070729	1035365	4141458	1940210	-6.30
56 Chlorobenzene-d5	1827581	913791	3655162	1676229	-8.28
79 1,4-Dichlorobenze	1341088	670544	2682176	1175002	-12.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.09	6.59	7.59	7.09	0.02
56 Chlorobenzene-d5	12.58	12.08	13.08	12.57	-0.06
79 1,4-Dichlorobenze	17.22	16.72	17.72	17.20	-0.10

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i
 Lab File ID: GS2685.D
 Lab Smp Id: 400 PPB 8260B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: GFB
 Method File: \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Misc Info: 1393-2;91-1;89-2,,5,,1,1-8260B.SUB

Calibration Date: 29-JAN-2001
 Calibration Time: 19:58

Level: LOW
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	2070729	1035365	4141458	2131035	2.91
56 Chlorobenzene-d5	1827581	913791	3655162	1744530	-4.54
79 1,4-Dichlorobenze	1341088	670544	2682176	1019370	-23.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.09	6.59	7.59	7.08	-0.06
56 Chlorobenzene-d5	12.58	12.08	13.08	12.58	0.04
79 1,4-Dichlorobenze	17.22	16.72	17.72	17.21	-0.08

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\chem\mg.i\0129AG.B\GS2681.D
 Lab Smp Id: 5 PPB 8260B
 Inj Date : 29-JAN-2001 18:52
 Operator : GFB Inst ID: mg.i
 Smp Info : 5 PPB 8260B,,,1,0,,,8260BGS.M
 Misc Info : 1393-2;91-1;90-2,,5,,1,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Meth Date : 30-Jan-2001 17:10 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 10 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws * (100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.510	1.524	(0.213)	126113	5.00000	4.60(a)
3 Chloromethane (**)	50	1.746	1.789	(0.247)	26154	5.00000	4.40(am)
2 Vinyl chloride (*)	62	1.746	1.750	(0.247)	40127	5.00000	5.03
4 Bromomethane	94	2.021	2.006	(0.286)	37919	5.00000	6.14
5 Chloroethane	64	2.100	2.084	(0.297)	21638	5.00000	5.11
6 Trichlorofluoromethane	101	2.336	2.429	(0.330)	197518	5.00000	5.81
7 Acrolein	56	2.730	2.773	(0.386)	30837	50.00000	43.80
8 1,1-Dichloroethene(*)	96	2.828	2.803	(0.400)	48737	5.00000	4.61(a)
9 1,1,2-Trichlorotrifluoroethan	151	2.808	2.793	(0.397)	80460	5.00000	4.24(a)
10 Acetone	43	2.897	2.980	(0.409)	90394	25.00000	29.14
11 Iodomethane	142	2.985	2.960	(0.422)	119001	10.00000	6.45
12 Carbon disulfide	76	3.035	3.029	(0.429)	125675	5.00000	4.60(a)
13 Methylene chloride	84	3.379	3.373	(0.477)	49944	5.00000	4.65(a)
14 t-Butanol	59	3.605	3.796	(0.509)	44128	20.00000	20.62(a)

GFB 1/31/01

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL AMT (ug/Kg)	ON-COL (ug/Kg)
*****	****	**	*****	*****	*****	*****	*****
16 Acrylontrile	53	3.704	3.757	(0.523)	92081	50.0000	49.35
15 trans-1,2-Dichloroethene	96	3.694	3.698	(0.522)	53796	5.00000	4.52(a)
19 Vinyl acetate	43	4.441	4.465	(0.627)	239409	10.0000	10.23
17 Methyl-tert-butyl ether [MTBE]	73	3.733	3.786	(0.527)	198952	5.00000	5.24
18 1,1-Dichloroethane (**)	63	4.294	4.318	(0.607)	118310	5.00000	4.88(a)
20 Isopropyl ether	45	4.471	4.505	(0.632)	170262	5.00000	5.08
22 Tert-butyl ethyl ether	59	5.032	5.055	(0.711)	217042	5.00000	5.02
21 2,2-Dichloropropane	77	5.169	5.164	(0.730)	163769	5.00000	5.13
23 cis-1,2-Dichloroethene	96	5.189	5.203	(0.733)	60687	5.00000	4.67(a)
24 2-Butanone	43	5.278	5.351	(0.746)	136933	25.0000	28.57
25 Bromochloromethane	128	5.573	5.577	(0.787)	39028	5.00000	4.68(a)
27 Tetrahydrofuran	42	5.671	5.734	(0.801)	9262	5.00000	5.26(a)
26 Chloroform (*)	83	5.740	5.754	(0.811)	180205	5.00000	5.22
M 28 1,2-Dichloroethene (total)	100				114483	10.0000	5.19
\$ 29 Dibromofluoromethane	111	5.996	6.020	(0.847)	147811	5.00000	5.08
30 1,1,1-Trichloroethane	97	5.976	5.951	(0.844)	189541	5.00000	5.09
31 Carbon Tetrachloride	117	6.242	6.216	(0.882)	175430	5.00000	4.98(a)
32 1,1-Dichloropropene	75	6.252	6.236	(0.883)	111915	5.00000	4.90(a)
\$ 33 1,2-Dichloroethane-d4	65	6.527	6.531	(0.922)	123479	5.00000	4.98(a)
34 1,2-Dichloroethane-d4 2nd	102	6.517	6.531	(0.921)	8436	5.00000	2.58(a)
35 Benzene	78	6.576	6.580	(0.929)	154286	5.00000	5.07
36 1,2-Dichloroethane	62	6.645	6.659	(0.939)	146141	5.00000	5.35
37 Tert-amyl methyl ether	73	6.862	6.895	(0.969)	205008	5.00000	5.17
* 38 Fluorobenzene	96	7.078	7.082	(1.000)	1945305	50.0000	
39 Trichloroethene	130	7.717	7.712	(1.090)	80607	5.00000	4.46(a)
40 1,2-Dichloropropane(*)	63	8.121	8.105	(1.147)	61283	5.00000	4.98(a)
41 Dibromomethane	93	8.318	8.322	(1.175)	71034	5.00000	5.10
42 Bromodichloromethane	83	8.632	8.636	(1.220)	181036	5.00000	5.16
44 2-Chloroethylvinyl ether	106	9.242	9.256	(1.306)	19856	10.0000	7.38
43 1-Bromo-2-chloroethane	63	9.134	9.148	(1.291)	112472	5.00000	5.46
45 cis-1,3-Dichloropropene	75	9.429	9.453	(1.332)	110912	5.00000	4.85(a)
46 4-Methyl-2-pentanone	43	9.774	9.827	(1.381)	308359	25.0000	25.73
\$ 47 Toluene-d8	98	9.882	9.906	(0.786)	169820	5.00000	4.56(a)
48 Toluene (*)	91	10.010	10.024	(0.796)	199017	5.00000	4.97(a)
49 trans-1,3-Dichloropropene	75	10.472	10.496	(0.833)	113322	5.00000	4.75(a)
50 1,1,2-Trichloroethane	97	10.816	10.820	(0.860)	67324	5.00000	4.77(a)
51 Tetrachloroethene	164	10.993	11.007	(0.874)	75843	5.00000	4.18(a)
52 1,3-Dichloropropane	76	11.082	11.106	(0.881)	122906	5.00000	5.20
53 2-Hexanone	43	11.348	11.371	(0.902)	231922	25.0000	25.76
54 Dibromochloromethane	129	11.495	11.519	(0.914)	152523	5.00000	4.93(a)
55 1,2-Dibromoethane	107	11.662	11.676	(0.927)	112345	5.00000	4.94(a)
* 56 Chlorobenzene-d5	117	12.577	12.581	(1.000)	1698547	50.0000	
57 Chlorobenzene (**)	112	12.617	12.640	(1.003)	161702	5.00000	4.92(a)
58 1,1,1,2-Tetrachloroethane	131	12.813	12.827	(1.019)	106717	5.00000	4.88(a)
59 Ethylbenzene (*)	106	12.872	12.896	(1.023)	71235	5.00000	4.66(a)
60 m,p-Xylenes	106	13.128	13.132	(1.044)	179812	10.0000	9.62
61 o-Xylene	106	13.886	13.880	(1.104)	86463	5.00000	4.84(a)

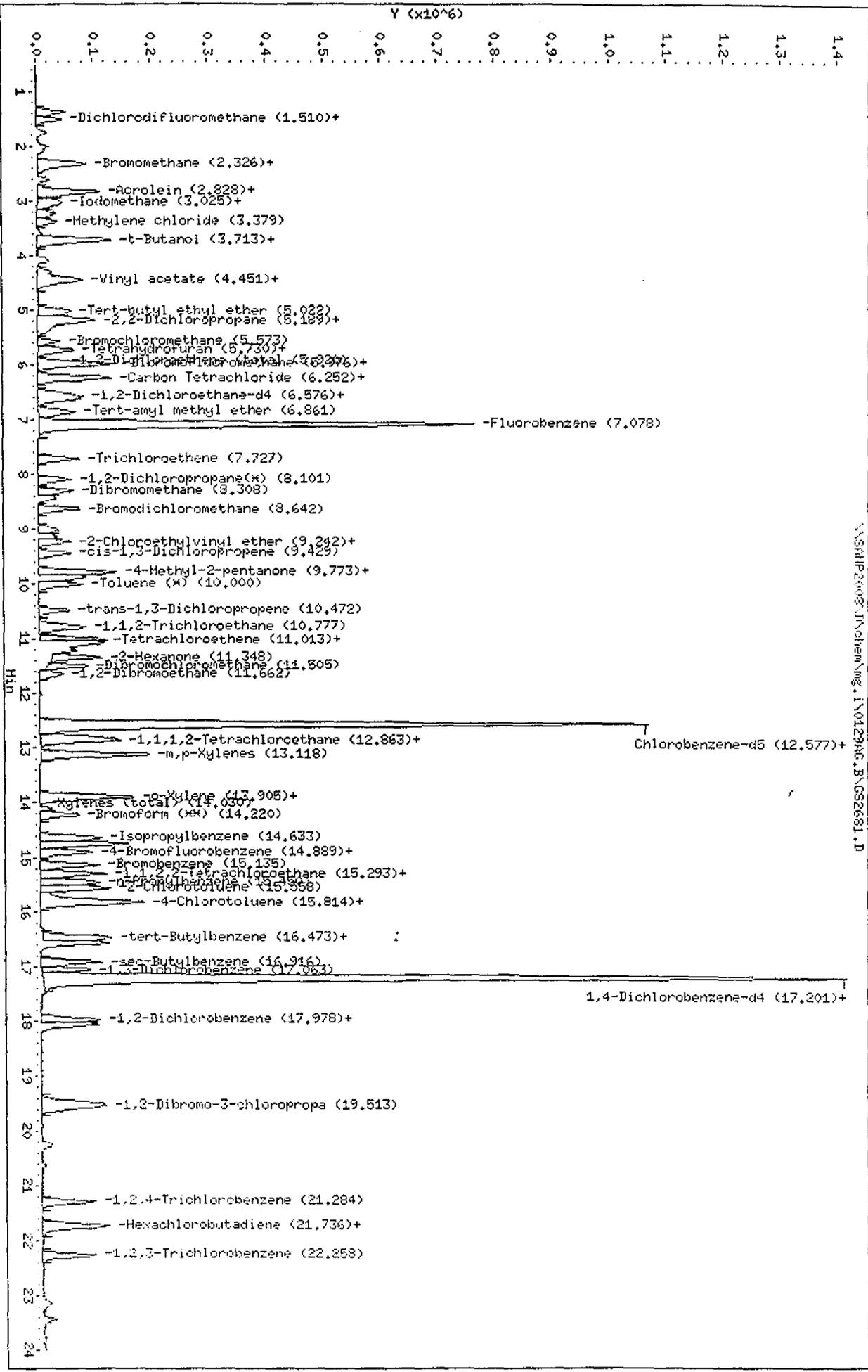
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
-----	----	==	-----	-----	-----	-----	-----
62 Styrene	104	13.915	13.929	(1.106)	143583	5.00000	4.71(a)
M 63 Xylenes (total)	100				266275	5.00000	14.27
64 Bromoform (**)	173	14.230	14.234	(1.131)	110614	5.00000	4.54(a)
65 Isopropylbenzene	105	14.633	14.638	(1.163)	290583	5.00000	4.69(a)
S 67 4-Bromofluorobenzene	95	14.899	14.913	(0.866)	147093	5.00000	4.44(a)
66 4-Bromofluorobenzene-2nd	174	14.899	14.913	(0.866)	91744	5.00000	4.04(a)
68 Bromobenzene	156	15.145	15.149	(0.880)	93511	5.00000	4.35(a)
69 1,1,2,2-Tetrachloroethane(**)	83	15.283	15.297	(0.888)	110611	5.00000	4.91(a)
70 1,2,3-Trichloropropane	110	15.312	15.326	(0.890)	37653	5.00000	4.39(a)
71 n-Propylbenzene	91	15.460	15.464	(0.898)	321480	5.00000	4.34(a)
72 2-Chlorotoluene	126	15.558	15.582	(0.904)	69768	5.00000	4.56(a)
73 4-Chlorotoluene	126	15.794	15.798	(0.913)	66690	5.00000	4.34(a)
74 1,3,5-Trimethylbenzene	105	15.843	15.848	(0.921)	260653	5.00000	4.74(a)
75 tert-Butylbenzene	119	16.473	16.467	(0.957)	257546	5.00000	4.49(a)
76 1,2,4-Trimethylbenzene	105	16.572	16.585	(0.963)	264235	5.00000	4.69(a)
77 sec-Butylbenzene	105	16.916	16.920	(0.983)	297954	5.00000	4.21(a)
78 1,3-Dichlorobenzene	146	17.063	17.068	(0.991)	143683	5.00000	4.54(a)
* 79 1,4-Dichlorobenzene-d4	152	17.211	17.205	(1.000)	1206433	5.00000	
80 1,4-Dichlorobenzene	146	17.240	17.264	(1.002)	162875	5.00000	4.69(a)
81 p-Isopropyltoluene	119	17.231	17.245	(1.001)	251536	5.00000	4.26(a)
82 1,2-Dichlorobenzene	146	17.968	17.973	(1.044)	152055	5.00000	4.56(a)
83 n-Butylbenzene	91	18.067	18.071	(1.050)	212972	5.00000	3.98(a)
84 1,2-Dibromo-3-chloropropane	157	19.602	19.586	(1.139)	37965	5.00000	3.98(a)
85 1,2,4-Trichlorobenzene	180	21.294	21.288	(1.237)	120047	5.00000	4.16(a)
86 Hexachlorobutadiene	225	21.717	21.701	(1.262)	75846	5.00000	3.46(a)
87 Napthalene	128	21.756	21.760	(1.264)	242435	5.00000	5.04
88 1,2,3-Trichlorobenzene	180	22.258	22.262	(1.293)	124551	5.00000	4.46(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Column phase: J&M DB-624

Instrument: mg.i
Operator: GFB
Column diameter: 0.53



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\chem\mg.i\0129AG.B\GS2682.D
 Lab Smp Id: 20 PPB 8260B
 Inj Date : 29-JAN-2001 19:25
 Operator : GFB Inst ID: mg.i
 Smp Info : 20 PPB 8260B,,,2,0,,,8260BGS.M
 Misc Info : 1393-2;91-1;90-2,,5,,1,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Meth Date : 30-Jan-2001 17:10 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 11 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws * (100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.519	1.524 (0.215)		643855	20.0000	23.43
3 Chloromethane (**)	50	1.775	1.789 (0.251)		139334	20.0000	25.00
2 Vinyl chloride (*)	62	1.745	1.750 (0.247)		177749	20.0000	22.23
4 Bromomethane	94	2.011	2.006 (0.284)		153469	20.0000	24.79
5 Chloroethane	64	2.089	2.084 (0.295)		115655	20.0000	27.23
6 Trichlorofluoromethane	101	2.345	2.429 (0.331)		918101	20.0000	26.92
7 Acrolein	56	2.739	2.773 (0.387)		151183	200.0000	214.0(A)
8 1,1-Dichloroethene(*)	96	2.837	2.803 (0.401)		237616	20.0000	22.42
9 1,1,2-Trichlorotrifluoroethan	151	2.827	2.793 (0.399)		455664	20.0000	23.91
10 Acetone	43	2.906	2.980 (0.411)		338307	100.0000	138.7
11 Iodomethane	142	2.994	2.960 (0.423)		754937	40.0000	40.77
12 Carbon disulfide	76	3.044	3.029 (0.430)		574062	20.0000	20.92
13 Methylene chloride	84	3.358	3.373 (0.475)		234302	20.0000	21.74
14 t-Butanol	59	3.604	3.796 (0.509)		192908	80.0000	89.87(a)

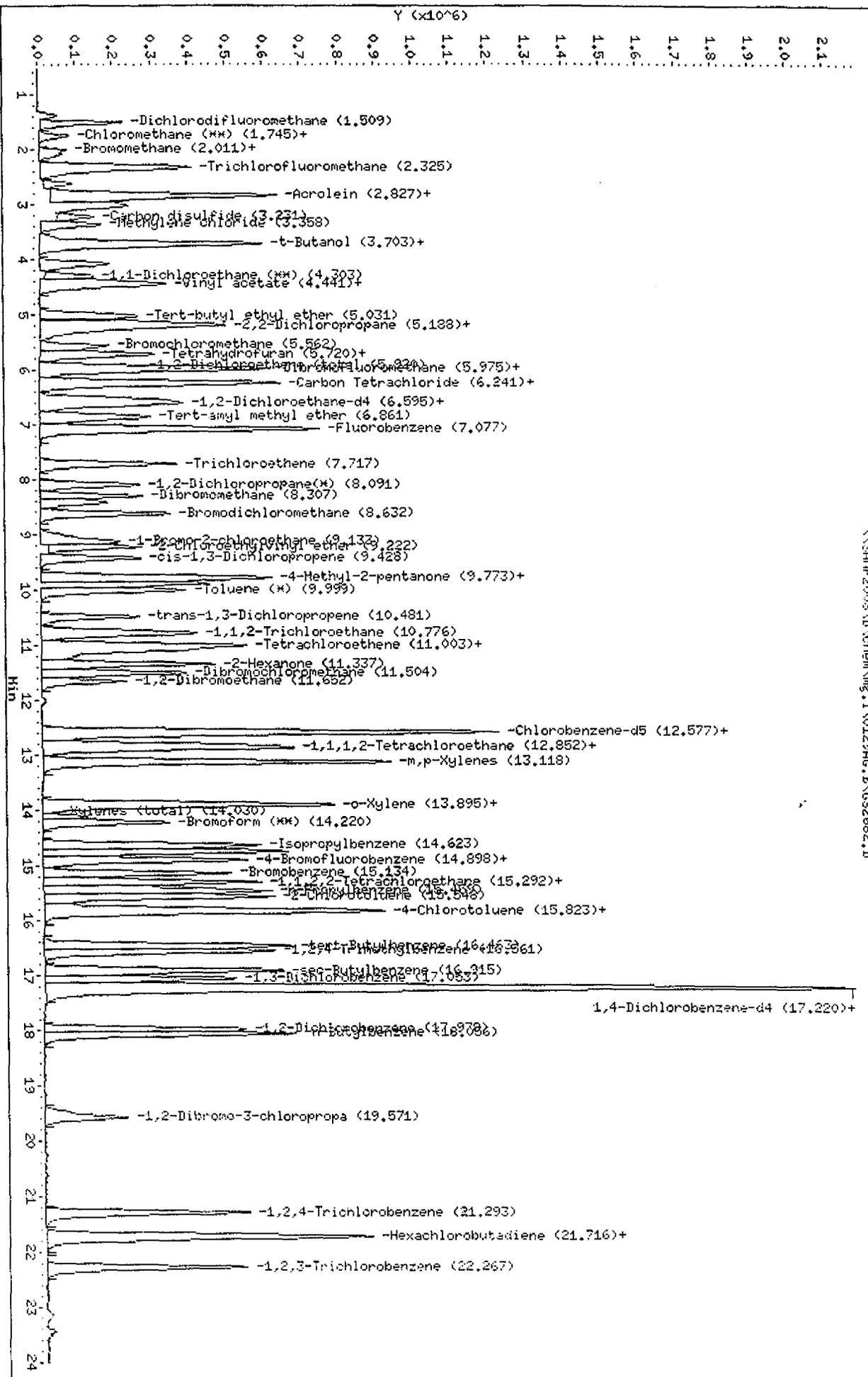
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
16 Acrylontrile	53	3.703	3.757 (0.523)		412835	200.000	220.6 (A)
15 trans-1,2-Dichloroethene	96	3.693	3.698 (0.522)		265747	20.0000	22.29
19 Vinyl acetate	43	4.431	4.465 (0.626)		1029506	40.0000	43.84
17 Methyl-tert-butyl ether(MTBE)	73	3.732	3.786 (0.527)		852253	20.0000	22.37
18 1,1-Dichloroethane (**)	63	4.313	4.318 (0.609)		524585	20.0000	21.60
20 Isopropyl ether	45	4.460	4.505 (0.630)		727975	20.0000	21.64
22 Tert-butyl ethyl ether	59	5.021	5.055 (0.709)		942057	20.0000	21.72
21 2,2-Dichloropropane	77	5.169	5.164 (0.730)		739127	20.0000	23.08
23 cis-1,2-Dichloroethene	96	5.198	5.203 (0.734)		290270	20.0000	22.26
24 2-Butanone	43	5.287	5.351 (0.747)		544019	100.000	113.1
25 Bromochloromethane	128	5.562	5.577 (0.786)		188043	20.0000	22.46
27 Tetrahydrofuran	42	5.670	5.734 (0.801)		52863	20.0000	21.99
26 Chloroform (*)	83	5.720	5.754 (0.808)		764407	20.0000	22.08
M 28 1,2-Dichloroethene (total)	100				556017	40.0000	44.55
\$ 29 Dibromofluoromethane	111	5.985	6.020 (0.846)		623733	20.0000	21.38
30 1,1,1-Trichloroethane	97	5.965	5.951 (0.843)		847827	20.0000	22.68
31 Carbon Tetrachloride	117	6.241	6.216 (0.882)		796406	20.0000	22.53
32 1,1-Dichloropropene	75	6.241	6.236 (0.882)		522496	20.0000	22.80
\$ 33 1,2-Dichloroethane-d4	65	6.507	6.531 (0.919)		547669	20.0000	20.04
34 1,2-Dichloroethane-d4 2nd	102	6.526	6.531 (0.922)		72584	20.0000	32.16
35 Benzene	78	6.575	6.580 (0.929)		662628	20.0000	21.71
36 1,2-Dichloroethane	62	6.644	6.659 (0.939)		604739	20.0000	22.07
37 Tert-amyl methyl ether	73	6.861	6.895 (0.969)		851594	20.0000	21.42
* 38 Fluorobenzene	96	7.077	7.082 (1.000)		1951433	50.0000	
39 Trichloroethene	130	7.717	7.712 (1.090)		398450	20.0000	21.97
40 1,2-Dichloropropane(*)	63	8.091	8.105 (1.143)		261817	20.0000	21.23
41 Dibromomethane	93	8.307	8.322 (1.174)		311047	20.0000	22.29
42 Bromodichloromethane	83	8.632	8.636 (1.220)		764356	20.0000	21.70
44 2-Chloroethylvinyl ether	106	9.222	9.256 (1.303)		115254	40.0000	42.74
43 1-Bromo-2-chloroethane	63	9.133	9.148 (1.291)		417408	20.0000	20.20
45 cis-1,3-Dichloropropene	75	9.428	9.453 (1.332)		494833	20.0000	21.55
46 4-Methyl-2-pentanone	43	9.773	9.827 (1.381)		1345416	100.000	111.9
\$ 47 Toluene-d8	98	9.881	9.906 (0.786)		808569	20.0000	21.52
48 Toluene (*)	91	9.999	10.024 (0.796)		856225	20.0000	21.16
49 trans-1,3-Dichloropropene	75	10.481	10.496 (0.834)		502592	20.0000	20.98
50 1,1,2-Trichloroethane	97	10.786	10.820 (0.858)		306611	20.0000	21.51
51 Tetrachloroethene	164	11.003	11.007 (0.876)		406820	20.0000	22.19
52 1,3-Dichloropropane	76	11.091	11.106 (0.883)		511472	20.0000	21.45
53 2-Hexanone	43	11.337	11.371 (0.902)		987087	100.000	103.6
54 Dibromochloromethane	129	11.514	11.519 (0.916)		673892	20.0000	21.57
55 1,2-Dibromoethane	107	11.652	11.676 (0.927)		478924	20.0000	20.83
* 56 Chlorobenzene-d5	117	12.567	12.581 (1.000)		1714731	50.0000	
57 Chlorobenzene (**)	112	12.626	12.640 (1.005)		702862	20.0000	21.19
58 1,1,1,2-Tetrachloroethane	131	12.813	12.827 (1.020)		483328	20.0000	21.31
59 Ethylbenzene (*)	106	12.882	12.896 (1.025)		342322	20.0000	20.20
60 m,p-Xylenes	106	13.128	13.132 (1.045)		837903	40.0000	44.41
61 o-Xylene	106	13.885	13.880 (1.105)		406941	20.0000	21.56

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
62 Styrene	104	13.915	13.929	(1.107)	663921	20.0000	21.60
M 63 Xylenes (total)	100				1244844	60.0000	66.07
64 Bromoform (**)	173	14.229	14.234	(1.132)	524239	20.0000	21.32
65 Isopropylbenzene	105	14.633	14.638	(1.164)	1392014	20.0000	22.24
\$ 67 4-Bromofluorobenzene	95	14.908	14.913	(0.867)	706971	20.0000	20.74
66 4-Bromofluorobenzene-2nd	174	14.908	14.913	(0.867)	490617	20.0000	21.05
68 Bromobenzene	156	15.144	15.149	(0.880)	465704	20.0000	21.06
69 1,1,2,2-Tetrachloroethane(**)	83	15.292	15.297	(0.889)	482429	20.0000	20.85
70 1,2,3-Trichloropropane	110	15.312	15.326	(0.890)	192069	20.0000	21.79
71 n-Propylbenzene	91	15.459	15.464	(0.899)	1431410	20.0000	20.98
72 2-Chlorotoluene	126	15.548	15.582	(0.904)	338725	20.0000	21.54
73 4-Chlorotoluene	126	15.794	15.798	(0.918)	335858	20.0000	21.27
74 1,3,5-Trimethylbenzene	105	15.843	15.848	(0.921)	1258066	20.0000	22.28
75 tert-Butylbenzene	119	16.463	16.467	(0.957)	1265623	20.0000	21.47
76 1,2,4-Trimethylbenzene	105	16.571	16.585	(0.963)	1258866	20.0000	21.75
77 sec-Butylbenzene	105	16.905	16.920	(0.983)	1616731	20.0000	22.24
78 1,3-Dichlorobenzene	146	17.053	17.068	(0.991)	686007	20.0000	21.10
* 79 1,4-Dichlorobenzene-d4	152	17.200	17.205	(1.000)	1240020	50.0000	
80 1,4-Dichlorobenzene	146	17.250	17.264	(1.003)	794119	20.0000	22.26
81 p-Isopropyltoluene	119	17.240	17.245	(1.002)	1398238	20.0000	23.04
82 1,2-Dichlorobenzene	146	17.968	17.973	(1.045)	738426	20.0000	21.56
83 n-Butylbenzene	91	18.076	18.071	(1.051)	1239014	20.0000	22.52
84 1,2-Dibromo-3-chloropropane	157	19.591	19.586	(1.139)	199083	20.0000	20.29
85 1,2,4-Trichlorobenzene	180	21.293	21.288	(1.238)	641840	20.0000	21.65
86 Hexachlorobutadiene	225	21.716	21.701	(1.263)	546062	20.0000	24.23
87 Napthalene	128	21.755	21.760	(1.265)	1065223	20.0000	21.57
88 1,2,3-Trichlorobenzene	180	22.267	22.262	(1.295)	617012	20.0000	21.50

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.

:



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\chem\mg.i\0129AG.B\GS2683.D
 Lab Smp Id: 50 PPB 8260B
 Inj Date : 29-JAN-2001 19:58
 Operator : GFB
 Smp Info : 50 PPB 8260B,,,3,0,,,8260BGS.M
 Misc Info : 1393-2;91-1;89-2,,5,,1,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Meth Date : 30-Jan-2001 17:10 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 12 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws * (100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.518	1.524	(0.214)	1448396	50.0000	49.66
3 Chloromethane (**)	50	1.764	1.789	(0.249)	318136	50.0000	53.80
2 Vinyl chloride (*)	62	1.745	1.750	(0.246)	402178	50.0000	47.41
4 Bromomethane	94	2.010	2.006	(0.284)	346401	50.0000	52.73
5 Chloroethane	64	2.099	2.084	(0.296)	261219	50.0000	57.95
6 Trichlorofluoromethane	101	2.355	2.429	(0.332)	2131339	50.0000	58.90
7 Acrolein	56	2.738	2.773	(0.386)	358955	500.000	478.9(A)
8 1,1-Dichloroethene(*)	96	2.837	2.803	(0.400)	565710	50.0000	50.30
9 1,1,2-Trichlorotrifluoroethan	151	2.827	2.793	(0.399)	1007807	50.0000	49.84
10 Acetone	43	2.915	2.980	(0.411)	782069	250.000	237.2
11 Iodomethane	142	2.984	2.960	(0.421)	2055476	100.000	104.6(A)
12 Carbon disulfide	76	3.043	3.029	(0.429)	1382601	50.0000	47.51
13 Methylene chloride	81	3.378	3.373	(0.477)	562156	50.0000	49.16
14 t-Butanol	59	3.614	3.796	(0.510)	480789	200.000	211.1(A)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
16 Acrylontrile	53		3.702	3.757	(0.522)	939818	500.000	473.2(A)
15 trans-1,2-Dichloroethene	96		3.702	3.698	(0.522)	631170	50.0000	49.88
19 Vinyl acetate	43		4.430	4.465	(0.625)	2471577	100.000	99.18
17 Methyl-tert-butyl ether(MTBE)	73		3.742	3.786	(0.528)	2037557	50.0000	50.41
18 1,1-Dichloroethane (**)	63		4.303	4.318	(0.607)	1273599	50.0000	49.41
20 Isopropyl ether	45		4.470	4.505	(0.631)	1757363	50.0000	49.24
22 Tert-butyl ethyl ether	59		5.031	5.055	(0.710)	2296828	50.0000	49.91
21 2,2-Dichloropropane	77		5.178	5.164	(0.731)	1757019	50.0000	51.71
23 cis-1,2-Dichloroethene	96		5.198	5.203	(0.733)	706128	50.0000	51.03
24 2-Butanone	43		5.286	5.351	(0.746)	1236465	250.000	242.3
25 Bromochloromethane	128		5.572	5.577	(0.786)	450138	50.0000	50.67
27 Tetrahydrofuran	42		5.690	5.734	(0.801)	136227	50.0000	53.41
26 Chloroform (*)	83		5.739	5.754	(0.810)	1847001	50.0000	50.27
M 28 1,2-Dichloroethene (total)	100					1337298	100.000	100.9
\$ 29 Dibromofluoromethane	111		5.995	6.020	(0.846)	1520451	50.0000	49.12
30 1,1,1-Trichloroethane	97		5.975	5.951	(0.843)	2027887	50.0000	51.12
31 Carbon Tetrachloride	117		6.250	6.216	(0.882)	1937710	50.0000	51.65
32 1,1-Dichloropropene	75		6.250	6.236	(0.882)	1235582	50.0000	50.81
\$ 33 1,2-Dichloroethane-d4	65		6.526	6.531	(0.921)	1326134	50.0000	50.28
34 1,2-Dichloroethane-d4 2nd	102		6.526	6.531	(0.921)	194871	50.0000	54.07
35 Benzene	78		6.595	6.580	(0.931)	1603187	50.0000	49.50
36 1,2-Dichloroethane	62		6.644	6.659	(0.938)	1450384	50.0000	49.88
37 Tert-amyl methyl ether	73		6.870	6.895	(0.969)	2108319	50.0000	49.96
* 38 Fluorobenzene	96		7.087	7.082	(1.000)	2070729	50.0000	
39 Trichloroethene	130		7.716	7.712	(1.089)	978269	50.0000	50.84
40 1,2-Dichloropropane(*)	63		8.110	8.105	(1.144)	643290	50.0000	49.15
41 Dibromomethane	93		8.316	8.322	(1.174)	752826	50.0000	50.83
42 Bromodichloromethane	83		8.641	8.636	(1.219)	1870577	50.0000	50.05
44 2-Chloroethylvinyl ether	106		9.241	9.256	(1.304)	304103	100.000	106.3(A)
43 1-Bromo-2-chloroethane	63		9.143	9.148	(1.290)	1035740	50.0000	47.22
45 cis-1,3-Dichloropropene	75		9.438	9.453	(1.332)	1201816	50.0000	49.33
46 4-Methyl-2-pentanone	43		9.792	9.827	(1.382)	3158253	250.000	247.6
\$ 47 Toluene-d8	98		9.890	9.906	(0.786)	1987777	50.0000	49.64
48 Toluene (*)	91		10.008	10.024	(0.796)	2104713	50.0000	48.81
49 trans-1,3-Dichloropropene	75		10.491	10.496	(0.834)	1262385	50.0000	49.21
50 1,1,2-Trichloroethane	97		10.805	10.820	(0.859)	748798	50.0000	49.29
51 Tetrachloroethene	164		11.002	11.007	(0.875)	1006143	50.0000	51.49
52 1,3-Dichloropropane	76		11.100	11.106	(0.883)	1228322	50.0000	48.33
53 2-Hexanone	43		11.346	11.371	(0.902)	2307642	250.000	238.2
54 Dibromochloromethane	129		11.514	11.519	(0.916)	1688982	50.0000	50.72
55 1,2-Dibromoethane	107		11.661	11.676	(0.927)	1225705	50.0000	50.15
* 56 Chlorobenzene-d5	117		12.576	12.581	(1.000)	1927581	50.0000	
57 Chlorobenzene (**)	112		12.625	12.640	(1.004)	1727545	50.0000	48.97
58 1,1,1,2-Tetrachloroethane	131		12.812	12.827	(1.019)	1200571	50.0000	51.06
59 Ethylbenzene (*)	106		12.891	12.896	(1.025)	819941	50.0000	49.90
60 m,p-Xylenes	106		13.127	13.132	(1.044)	2034733	100.000	101.2
61 o-Xylene	106		13.885	13.880	(1.104)	1017914	50.0000	50.83

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
62 Styrene	104	13.924	13.929	(1.107)	1646993	50.0000	50.26
M 63 Xylenes (total)	100				3052647	150.0000	132.0
64 Bromoform (**)	173	14.229	14.234	(1.131)	1399158	50.0000	53.40
65 Isopropylbenzene	105	14.632	14.638	(1.163)	3398514	50.0000	50.94
S 67 4-Bromofluorobenzene	95	14.898	14.913	(0.865)	1761640	50.0000	47.79
66 4-Bromofluorobenzene-2nd	174	14.898	14.913	(0.865)	1239288	50.0000	49.16
68 Bromobenzene	156	15.144	15.149	(0.879)	1162080	50.0000	42.60
69 1,1,2,2-Tetrachloroethane(**)	83	15.282	15.297	(0.887)	1185701	50.0000	47.38
70 1,2,3-Trichloropropane	110	15.311	15.326	(0.889)	481862	50.0000	50.54
71 n-Propylbenzene	91	15.469	15.464	(0.898)	3523837	50.0000	47.76
72 2-Chlorotoluene	126	15.567	15.582	(0.904)	802633	50.0000	47.19
73 4-Chlorotoluene	126	15.803	15.798	(0.918)	834050	50.0000	45.83
74 1,3,5-Trimethylbenzene	105	15.852	15.848	(0.921)	2990700	50.0000	48.97
75 tert-Butylbenzene	119	16.472	16.467	(0.957)	3123741	50.0000	45.99
76 1,2,4-Trimethylbenzene	105	16.580	16.585	(0.963)	3042119	50.0000	48.61
77 sec-Butylbenzene	105	16.915	16.920	(0.982)	3814329	50.0000	48.52
78 1,3-Dichlorobenzene	146	17.062	17.068	(0.991)	1695673	50.0000	48.24
* 79 1,4-Dichlorobenzene-d4	152	17.220	17.205	(1.000)	1341088	50.0000	
80 1,4-Dichlorobenzene	146	17.259	17.264	(1.002)	1902434	50.0000	45.32
81 p-Isopropyltoluene	119	17.249	17.245	(1.002)	3317983	50.0000	50.34
82 1,2-Dichlorobenzene	146	17.977	17.973	(1.044)	1820490	50.0000	49.14
83 n-Butylbenzene	91	18.076	18.071	(1.050)	2895642	50.0000	48.67
84 1,2-Dibromo-3-chloropropane	157	19.600	19.586	(1.138)	520672	50.0000	49.06
85 1,2,4-Trichlorobenzene	180	21.302	21.288	(1.237)	1556923	50.0000	48.56
86 Hexachlorobutadiene	225	21.725	21.701	(1.262)	1248515	50.0000	51.22
87 Napthalene	128	21.755	21.760	(1.263)	2546092	50.0000	47.67
88 1,2,3-Trichlorobenzene	180	22.286	22.262	(1.294)	1509779	50.0000	48.65

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.

Client ID:

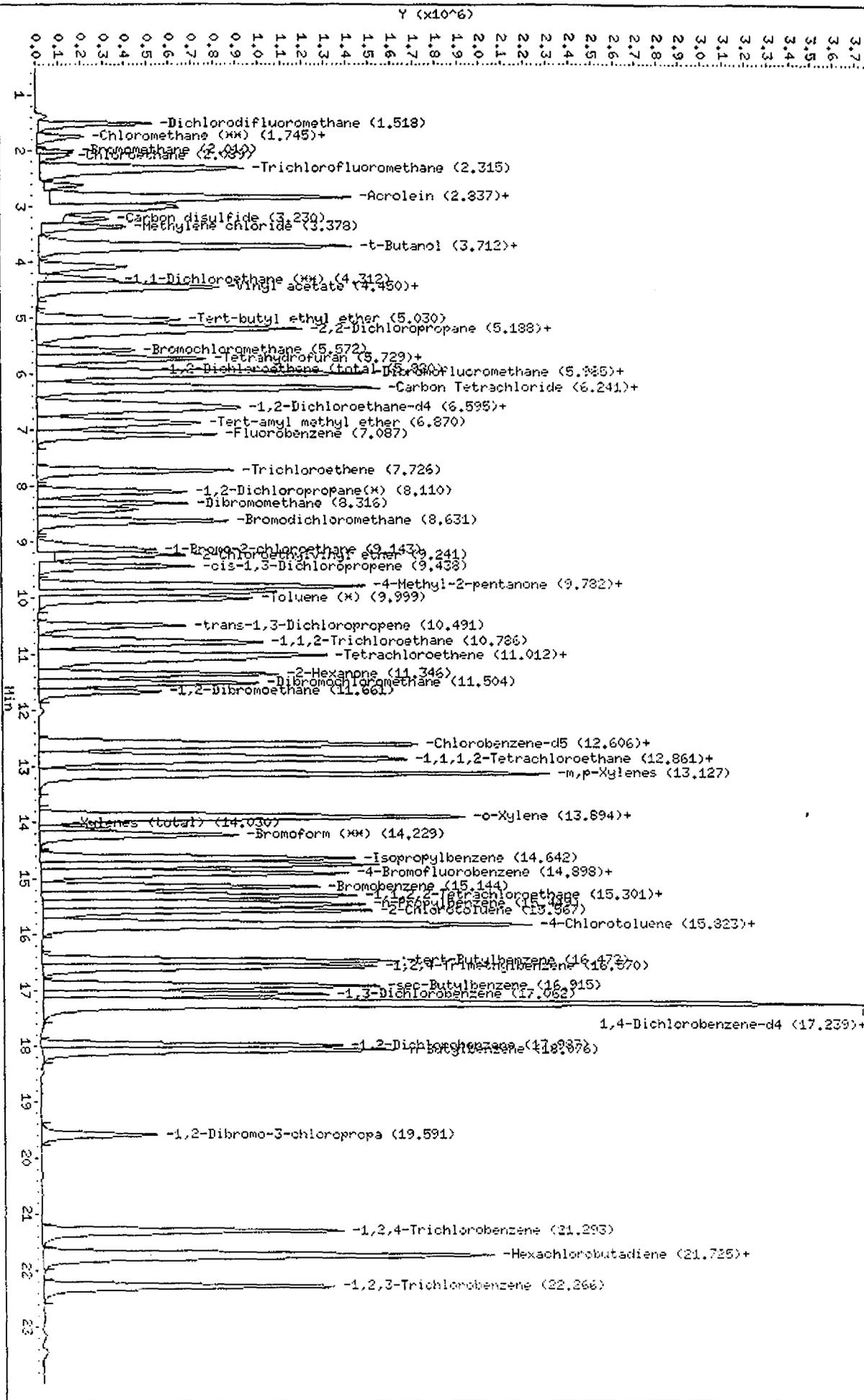
Sample Info: 50 PPB 8260B,,,3,0,,,8260BDS.H

Column phase: J&W DB-624

Instrument: mg.1

Operator: OFB

Column diameter: 0.53



\\SAMP2008\1\chem\mg.1\0129AC.B\052683.D

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\chem\mg.i\0129AG.B\GS2684.D
 Lab Smp Id: 100 PPB 8260B
 Inj Date : 29-JAN-2001 20:31
 Operator : GFB Inst ID: mg.i
 Smp Info : 100 PPB 8260B,,,4,0,,,8260BGS.M
 Misc Info : 1393-2;91-1;89-2,,5,,1,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Meth Date : 30-Jan-2001 17:10 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 13 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

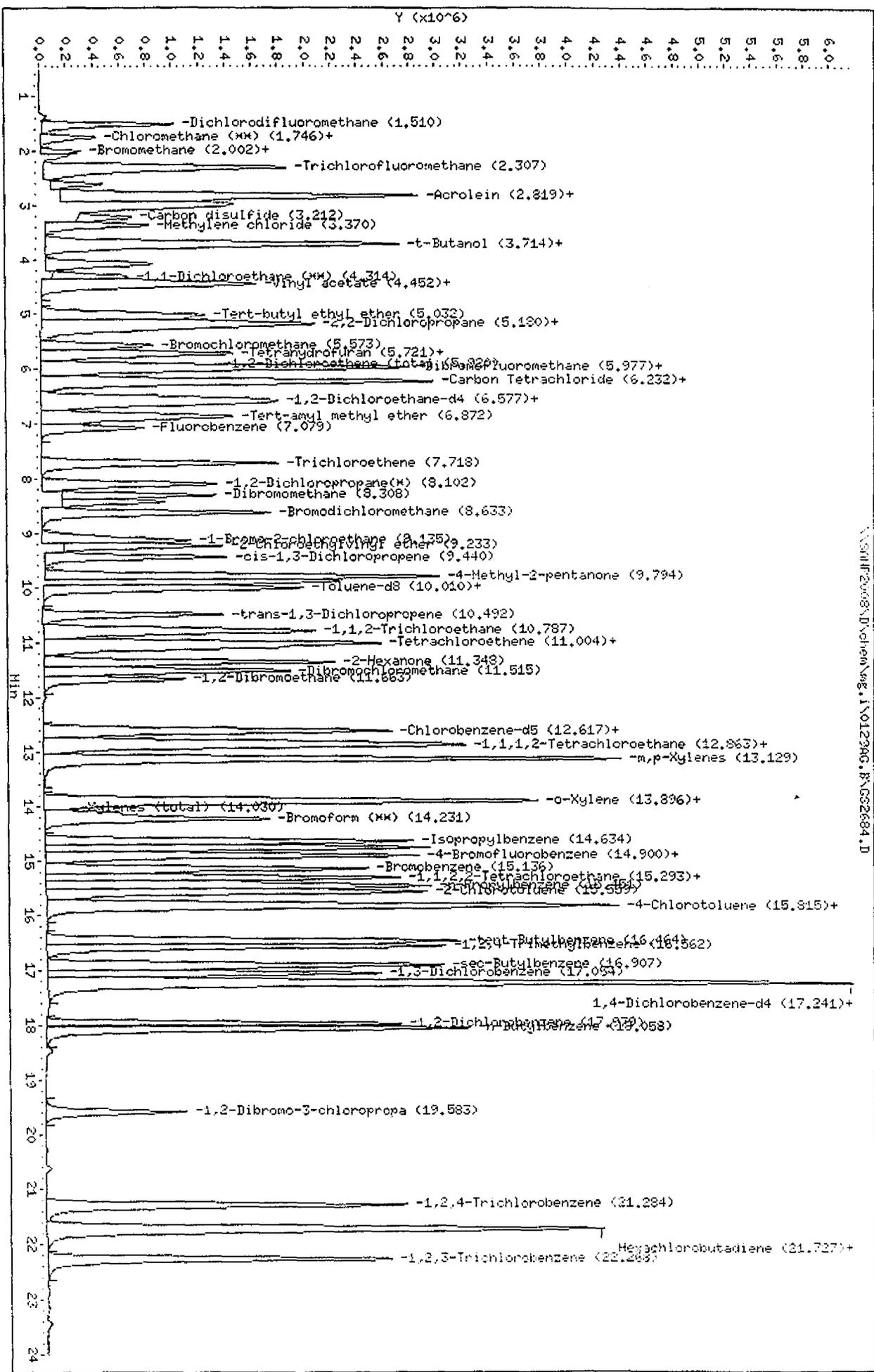
Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85		1.510	1.524	(0.213)	2911698	100.000	106.6
3 Chloromethane (**)	50		1.776	1.789	(0.251)	658173	100.000	118.8
2 Vinyl chloride (*)	62		1.746	1.750	(0.246)	834255	100.000	105.0
4 Bromomethane	94	:	2.002	2.006	(0.282)	579165	100.000	94.09
5 Chloroethane	64		2.091	2.084	(0.295)	422622	100.000	100.1
6 Trichlorofluoromethane	101		2.327	2.429	(0.328)	4124130	100.000	121.6
7 Acrolein	56		2.750	2.773	(0.388)	781773	1000.00	1113(A)
8 1,1-Dichloroethene(*)	96		2.829	2.803	(0.399)	1127426	100.000	107.0
9 1,1,2-Trichlorotrifluoroethan	151		2.819	2.793	(0.398)	2142940	100.000	113.1
10 Acetone	43		2.917	2.980	(0.412)	1540790	500.000	498.0
11 Iodomethane	142		2.976	2.960	(0.420)	4785632	200.000	260.0(A)
12 Carbon disulfide	76		3.045	3.029	(0.430)	2803709	100.000	102.8
13 Methylene chloride	84		3.370	3.373	(0.475)	1141100	100.000	106.5
14 t-Butanol	59		3.635	3.796	(0.513)	862925	400.000	404.4

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL AMT (ug/Kg)	ON-COL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
16 Acrylonitrile	53	3.704	3.757	(0.523)	1945240	1000.00	1045(A)
15 trans-1,2-Dichloroethene	96	3.704	3.698	(0.523)	1236163	100.000	104.3
19 Vinyl acetate	43	4.442	4.465	(0.627)	4701505	200.000	201.4(A)
17 Methyl-tert-butyl ether(MTBE)	73	3.744	3.786	(0.523)	3809807	100.000	100.6
18 1,1-Dichloroethane (**)	63	4.304	4.313	(0.607)	2480288	100.000	102.7
20 Isopropyl ether	45	4.471	4.505	(0.631)	3382953	100.000	101.2
22 Tert-butyl ethyl ether	59	5.032	5.055	(0.710)	4446163	100.000	103.1
21 2,2-Dichloropropane	77	5.170	5.164	(0.729)	3198449	100.000	100.5
23 cis-1,2-Dichloroethene	96	5.199	5.203	(0.734)	1339987	100.000	103.4
24 2-Butanone	43	5.288	5.351	(0.746)	2267655	500.000	474.3
25 Bromochloromethane	128	5.573	5.577	(0.786)	844921	100.000	101.5
27 Tetrahydrofuran	42	5.672	5.734	(0.800)	267513	100.000	111.9
26 Chloroform (*)	83	5.731	5.754	(0.808)	3585011	100.000	104.1
M 28 1,2-Dichloroethene (total)	100				2576150	200.000	207.6
\$ 29 Dibromofluoromethane	111	5.996	6.020	(0.846)	3181925	100.000	109.7
30 1,1,1-Trichloroethane	97	5.957	5.951	(0.840)	3940866	100.000	106.0
31 Carbon Tetrachloride	117	6.232	6.216	(0.879)	3770964	100.000	107.3
32 1,1-Dichloropropene	75	6.242	6.236	(0.881)	2399420	100.000	105.3
\$ 33 1,2-Dichloroethane-d4	65	6.518	6.531	(0.920)	2638238	100.000	106.8
34 1,2-Dichloroethane-d4 2nd	102	6.518	6.531	(0.920)	403706	100.000	104.0
35 Benzene	78	6.577	6.580	(0.928)	3189289	100.000	105.1
36 1,2-Dichloroethane	62	6.646	6.659	(0.938)	2808966	100.000	103.1
37 Tert-amyl methyl ether	73	6.872	6.895	(0.969)	4149039	100.000	104.9
* 38 Fluorobenzene	96	7.088	7.082	(1.000)	1940210	50.0000	
39 Trichloroethene	130	7.708	7.712	(1.087)	1972172	100.000	109.4
40 1,2-Dichloropropane(*)	63	8.102	8.105	(1.143)	1298548	100.000	105.9
41 Dibromomethane	93	8.298	8.322	(1.171)	1471552	100.000	106.0
42 Bromodichloromethane	83	8.633	8.636	(1.218)	3719457	100.000	106.2
44 2-Chloroethylvinyl ether	106	9.243	9.256	(1.304)	622555	200.000	232.2(A)
43 1-Bromo-2-chloroethane	63	9.135	9.148	(1.289)	2180755	100.000	106.1
45 cis-1,3-Dichloropropene	75	9.440	9.453	(1.332)	2460218	100.000	107.8
46 4-Methyl-2-pentanone	43	9.794	9.827	(1.382)	6307171	500.000	527.7
\$ 47 Toluene-d8	98	9.902	9.906	(0.788)	4087219	100.000	111.3
48 Toluene (*)	91	10.010	10.024	(0.796)	4217507	100.000	106.6
49 trans-1,3-Dichloropropene	75	10.492	10.496	(0.836)	2551857	100.000	108.4
50 1,1,2-Trichloroethane	97	10.817	10.820	(0.861)	1496446	100.000	107.4
51 Tetrachloroethene	164	11.004	11.007	(0.876)	2014806	100.000	112.4
52 1,3-Dichloropropane	76	11.092	11.106	(0.883)	2436325	100.000	104.5
53 2-Hexanone	43	11.358	11.371	(0.904)	4750867	500.000	534.8
54 Dibromochloromethane	129	11.506	11.519	(0.915)	3295983	100.000	107.9
55 1,2-Dibromoethane	107	11.673	11.676	(0.929)	2410405	100.000	107.5
* 56 Chlorobenzene-d5	117	12.568	12.581	(1.000)	1676239	50.0000	
57 Chlorobenzene (**)	112	12.627	12.640	(1.005)	3452410	100.000	106.3
58 1,1,1,2-Tetrachloroethane	131	12.824	12.827	(1.020)	2323938	100.000	107.8
59 Ethylbenzene (*)	106	12.883	12.896	(1.025)	1642700	100.000	109.0
60 m,p-Xylenes	106	13.129	13.132	(1.045)	3927545	200.000	213.0
61 o Xylene	106	13.886	13.880	(1.105)	1981339	100.000	107.0

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
*****	****	**	*****	*****	*****	*****	*****
62 Styrene	104	13.916	13.929	(1.107)	3241258	100.000	107.8
M 63 Xylenes (total)	100				5909354	300.000	320.9
64 Bromoform (**)	173	14.231	14.234	(1.132)	2658437	100.000	110.6
65 Isopropylbenzene	105	14.634	14.638	(1.164)	6654579	100.000	108.8
\$ 67 4-Bromofluorobenzene	95	14.900	14.913	(0.866)	3549889	100.000	109.9
66 4-Bromofluorobenzene-2nd	174	14.900	14.913	(0.866)	2480523	100.000	112.3
68 Bromobenzene	156	15.146	15.149	(0.880)	2254631	100.000	107.6
69 1,1,2,2-Tetrachloroethane(**)	83	15.293	15.297	(0.889)	2261506	100.000	103.1
70 1,2,3-Trichloropropane	110	15.313	15.326	(0.890)	893965	100.000	107.0
71 n-Propylbenzene	91	15.451	15.464	(0.898)	6705099	100.000	103.7
72 2-Chlorotoluene	126	15.559	15.582	(0.904)	1571455	100.000	105.4
73 4-Chlorotoluene	126	15.795	15.798	(0.918)	1636870	100.000	109.4
74 1,3,5-Trimethylbenzene	105	15.834	15.848	(0.921)	5678464	100.000	106.1
75 tert-Butylbenzene	119	16.464	16.467	(0.957)	6045786	100.000	103.2
76 1,2,4-Trimethylbenzene	105	16.572	16.585	(0.963)	5826495	100.000	106.3
77 sec-Butylbenzene	105	16.907	16.920	(0.983)	7504909	100.000	109.0
78 1,3-Dichlorobenzene	146	17.054	17.068	(0.991)	3307456	100.000	107.4
* 79 1,4-Dichlorobenzene-d4	152	17.202	17.205	(1.000)	1175002	50.0000	
80 1,4-Dichlorobenzene	146	17.251	17.264	(1.003)	3653867	100.000	108.1
81 p-Isopropyltoluene	119	17.241	17.245	(1.002)	6378103	100.000	110.9
82 1,2-Dichlorobenzene	146	17.969	17.973	(1.045)	3457650	100.000	106.5
83 n-Butylbenzene	91	18.067	18.071	(1.050)	5796917	100.000	111.2
84 1,2-Dibromo-3-chloropropane	157	19.592	19.586	(1.139)	1024244	100.000	110.1
85 1,2,4-Trichlorobenzene	180	21.284	21.288	(1.237)	3097278	100.000	110.2
86 Hexachlorobutadiene	225	21.707	21.701	(1.262)	2571403	100.000	120.4
87 Napthalene	128	21.757	21.760	(1.265)	4972865	100.000	106.3
88 1,2,3-Trichlorobenzene	180	22.278	22.262	(1.295)	3018028	100.000	111.0

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\chem\mg.i\0129AG.B\GS2685.D
 Lab Smp Id: 400 PPB 8260B
 Inj Date : 29-JAN-2001 21:04
 Operator : GFB Inst ID: mg.i
 Smp Info : 400 PPB 8260B,,,5,0,,,8260BGS.M
 Misc Info : 1393-2;91-1;89-2,,5,,1,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\chem\mg.i\0129AG.B\8260BGS.m
 Meth Date : 30-Jan-2001 17:10 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 14 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.524	1.524 (0.215)		10195885	400.000	339.7
3 Chloromethane (**)	50	1.789	1.789 (0.253)		2163726	400.000	332.6
2 Vinyl chloride (*)	62	1.750	1.750 (0.247)		3085980	400.000	353.5
4 Bromomethane	94	2.006	2.006 (0.283)		1450471	400.000	214.5
5 Chloroethane	64	2.084	2.084 (0.294)		847922	400.000	182.8
6 Trichlorofluoromethane	101	2.429	2.429 (0.343)		3502583	400.000	91.53 (M)
7 Acrolein	56	2.773	2.773 (0.392)		3031811	4000.00	3931 (A)
8 1,1-Dichloroethene (**)	96	2.803	2.803 (0.396)		4074534	400.000	352.1
9 1,1,2-Trichlorotrifluoroethan	151	2.793	2.793 (0.394)		6905699	400.000	331.8
10 Acetone	43	2.980	2.980 (0.421)		5453980	2000.00	1675
11 Iodomethane	142	2.960	2.960 (0.418)		16016285	300.000	792.1 (A)
12 Carbon disulfide	76	3.029	3.029 (0.428)		10586846	400.000	366.1
13 Methylene chloride	84	3.373	3.373 (0.476)		4406285	400.000	374.3
14 t-Butanol	59	3.796	3.796 (0.536)		2921829	1500.00	1246

GFB 1/31/01

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/Kg)	ON- COL (ug/Kg)
*****	***	**	*****	*****	*****	*****	*****
16 Acrylonitrile	53	3.757	3.757	(0.530)	7508865	4000.00	3574 (A)
15 trans-1,2-Dichloroethene	96	3.698	3.698	(0.522)	4897651	400.000	376.1
19 Vinyl acetate	43	4.465	4.465	(0.630)	18111680	800.000	706.2 (A)
17 Methyl-tert-butyl ether(MTBE)	73	3.786	3.786	(0.535)	11633962	400.000	327.8
18 1,1-Dichloroethane (**)	63	4.318	4.318	(0.610)	9843853	400.000	371.1
20 Isopropyl ether	45	4.505	4.505	(0.636)	13304532	400.000	362.2
22 Tert-butyl ethyl ether	59	5.055	5.055	(0.714)	16684157	400.000	392.3
21 2,2-Dichloropropane	77	5.164	5.164	(0.729)	10921697	400.000	313.3
23 cis-1,2-Dichloroethene	96	5.203	5.203	(0.735)	9119639	400.000	350.3
24 2-Butanone	43	5.351	5.351	(0.756)	8487270	2000.00	1616
25 Bromochloromethane	128	5.577	5.577	(0.787)	3338406	400.000	365.2
27 Tetrahydrofuran	42	5.734	5.734	(0.810)	986162	400.000	375.7
26 Chloroform (*)	83	5.754	5.754	(0.812)	12185570	400.000	328.2
M 28 1,2-Dichloroethene (total)	100				10017290	800.000	735.3
\$ 29 Dibromofluoromethane	111	6.020	6.020	(0.850)	10637655	400.000	333.2
30 1,1,1-Trichloroethane	97	5.951	5.951	(0.840)	12502257	400.000	306.3
31 Carbon Tetrachloride	117	6.216	6.216	(0.873)	11922946	400.000	308.3
32 1,1-Dichloropropene	75	6.236	6.236	(0.881)	8121911	400.000	321.3
\$ 33 1,2-Dichloroethane-d4	65	6.531	6.531	(0.922)	9991963	400.000	331.3
34 1,2-Dichloroethane-d4 2nd	102	6.531	6.531	(0.922)	1451175	400.000	405.7 A
35 Benzene	78	6.580	6.580	(0.929)	11464943	400.000	343.0
36 1,2-Dichloroethane	62	6.659	6.659	(0.940)	9555241	400.000	319.2
37 Tert-amyl methyl ether	73	6.895	6.895	(0.974)	14696377	400.000	338.4
* 38 Fluorobenzene	96	7.082	7.082	(1.000)	2131035	50.0000	
39 Trichloroethene	130	7.712	7.712	(1.089)	7117171	400.000	359.4
40 1,2-Dichloropropane(*)	63	8.105	8.105	(1.144)	4846167	400.000	359.8
41 Dibromomethane	93	8.322	8.322	(1.175)	4800799	400.000	315.0
42 Bromodichloromethane	83	8.636	8.636	(1.219)	12624124	400.000	328.2
44 2-Chloroethylvinyl ether	106	9.256	9.256	(1.307)	2284233	800.000	775.6 (A)
43 1-Bromo-2-chloroethane	63	9.148	9.148	(1.292)	8060395	400.000	357.1
45 cis-1,3-Dichloropropene	75	9.453	9.453	(1.335)	8913867	400.000	353.5
46 4-Methyl-2-pentanone	43	9.827	9.827	(1.388)	21158169	2000.00	1612
\$ 47 Toluene-d8	98	9.906	9.906	(0.787)	13840055	400.000	362.1
48 Toluene (*)	91	10.024	10.024	(0.797)	14913384	400.000	362.3
49 trans-1,3-Dichloropropene	75	10.496	10.496	(0.834)	9190571	400.000	375.2
50 1,1,2-Trichloroethane	97	10.820	10.820	(0.860)	5285689	400.000	364.3
51 Tetrachloroethene	164	11.007	11.007	(0.875)	6722366	400.000	330.4
52 1,3-Dichloropropane	76	11.106	11.106	(0.883)	8493276	400.000	350.1
53 2-Hexanone	43	11.371	11.371	(0.904)	15919008	2000.00	1722
54 Dibromochloromethane	129	11.519	11.519	(0.916)	10711040	400.000	337.0
55 1,2-Dibromoethane	107	11.676	11.676	(0.928)	8289800	400.000	355.3
* 56 Chlorobenzene-d5	117	12.581	12.581	(1.000)	1744530	50.0000	
57 Chlorobenzene (**)	112	12.640	12.640	(1.005)	12332431	400.000	383.3
58 1,1,1,2-Tetrachloroethane	131	12.827	12.827	(1.020)	7440705	400.000	331.3
59 Ethylbenzene (*)	106	12.896	12.896	(1.025)	5454535	400.000	347.7
60 m,p-Xylenes	106	13.132	13.132	(1.044)	13051915	800.000	670.3
61 o-Xylene	106	13.880	13.880	(1.103)	5823925	400.000	370.0

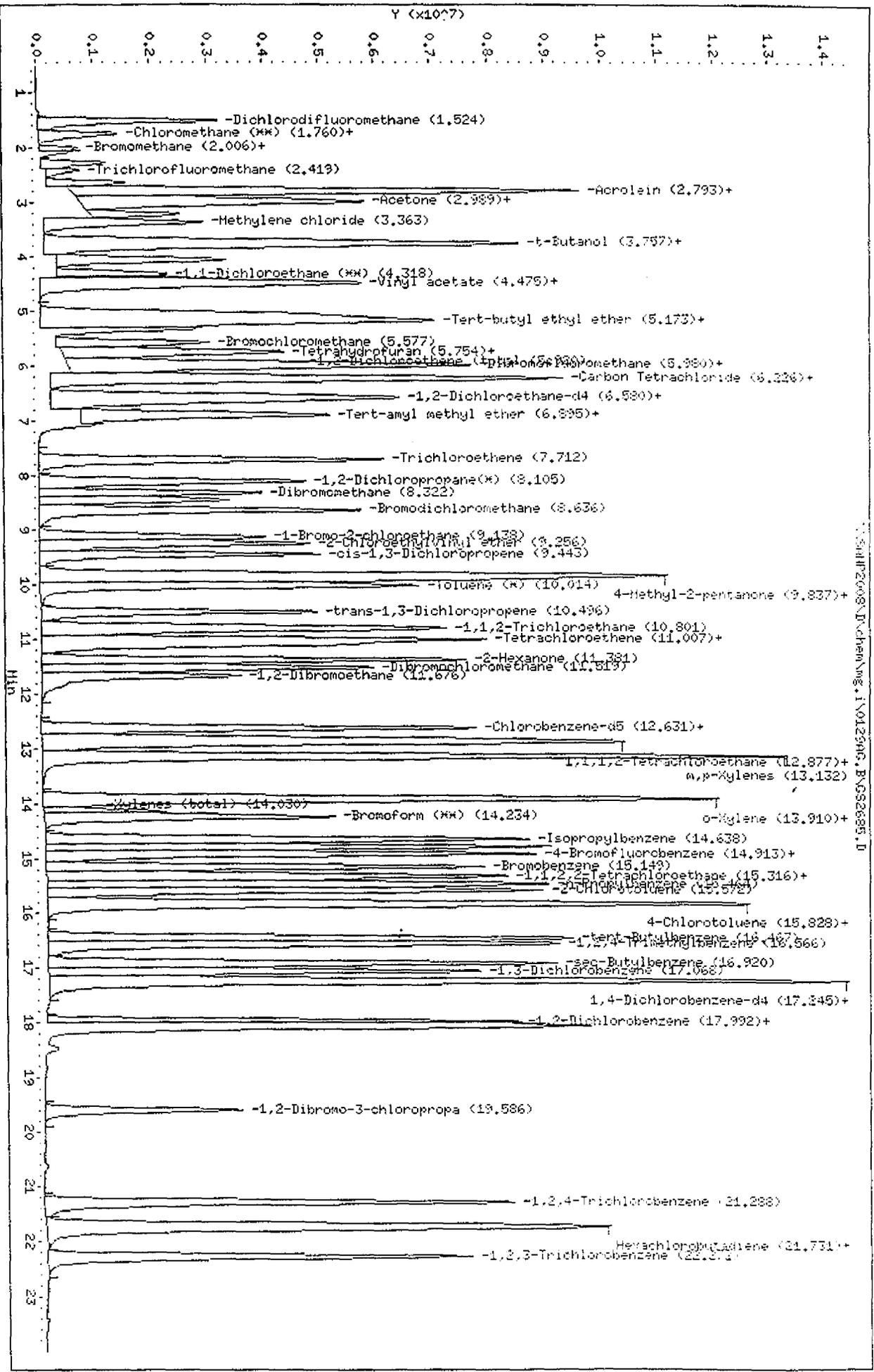
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
62 Styrene	104	13.929	13.929	(1.107)	11178788	400.000	357.4
M 63 Xylenes (total)	100				19885741	1200.00	1038
64 Bromoform (**)	173	14.234	14.234	(1.131)	8517608	400.000	310.5
65 Isopropylbenzene	105	14.638	14.638	(1.163)	21502763	400.000	337.7
S 67 4-Bromofluorobenzene	95	14.913	14.913	(0.867)	11443416	400.000	408.4(A)
66 4-Bromofluorobenzene-2nd	174	14.913	14.913	(0.867)	7913631	400.000	413.0(A)
68 Bromobenzene	156	15.149	15.149	(0.880)	7483006	400.000	411.7(A)
69 1,1,2,2-Tetrachloroethane(**)	83	15.297	15.297	(0.889)	7575366	400.000	398.3
70 1,2,3-Trichloropropane	110	15.326	15.326	(0.891)	2759070	400.000	380.7
71 n-Propylbenzene	91	15.464	15.464	(0.899)	22198340	400.000	395.8
72 2-Chlorotoluene	126	15.582	15.582	(0.906)	5237909	400.000	405.1(A)
73 4-Chlorotoluene	126	15.798	15.798	(0.918)	5181811	400.000	399.2
74 1,3,5-Trimethylbenzene	105	15.848	15.848	(0.921)	16648468	400.000	358.6
75 tert-Butylbenzene	119	16.467	16.467	(0.957)	18731201	400.000	386.5
76 1,2,4-Trimethylbenzene	105	16.585	16.585	(0.964)	17862443	400.000	375.5
77 sec-Butylbenzene	105	16.920	16.920	(0.983)	23555941	400.000	394.2
78 1,3-Dichlorobenzene	146	17.068	17.068	(0.992)	10659849	400.000	398.0
* 79 1,4-Dichlorobenzene-d4	152	17.205	17.205	(1.000)	1019370	500.000	
80 1,4-Dichlorobenzene	146	17.264	17.264	(1.003)	10324750	400.000	353.1
81 p-Isopropyltoluene	119	17.245	17.245	(1.002)	17493907	400.000	350.6
82 1,2-Dichlorobenzene	146	17.973	17.973	(1.045)	10830347	400.000	384.6
83 n-Butylbenzene	91	18.071	18.071	(1.050)	17952654	400.000	397.0
84 1,2-Dibromo-3-chloropropane	157	19.586	19.586	(1.138)	3574650	400.000	443.1(A)
85 1,2,4-Trichlorobenzene	180	21.288	21.288	(1.237)	9859388	400.000	404.6(A)
86 Hexachlorobutadiene	225	21.701	21.701	(1.261)	6435593	400.000	347.3
87 Napthalene	128	21.760	21.760	(1.265)	14556105	400.000	358.5
88 1,2,3-Trichlorobenzene	180	22.262	22.262	(1.294)	8959685	400.000	379.8

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: \\SARF2008\N\chem\mg.1\0129AG.B\052685.D
 Date: 29-JAN-2001 21:04
 Client ID:
 Sample Info: 400 PPB 8260B,,,5.0,,,8260B5.M
 Column phase: J&W DB-624

Instrument: mg.i
 Operator: GFB
 Column diameter: 0.53



8260B SAMPLE / QC DATA

DATE ANALYZED: 2/16/01

INSTRUMENT ID: MSG

SAMPLES: E1B 160288-1, 2

Batch ID: 1050518

GC/MS VOA Run Log

CM 21001

EPA 524.2 EPA 624 SW8260B [SOP: CORP-MS-0002 Rev 2] 5030B 5035

Insite ID: MSG		Tune File: BFB-U		Seq File: 2/16/17								
Init. Cal ID:	Analyst	File ID	Work Order #	AS #	Matrix	Sample Wt/Vol	Dil.	I.S.	Run	Rerun	pH	Comments
16:24	AD	GT1635	5099 PFB			1µ			✓			MS08A1403-2
16:41		GS2709	5099 8260B	1	5	50	1.0	324	✓			E1391-1, STD1412-1
17:39		GT11215	1CS10216 BG	2				310	✓			OC1409-1
18:15		116	MB-0216 BG	3				312	✓			T
18:50		17	DV70DIAD	4				270	✓			F113 150298 L
19:20		18	DV9F11AA	5				230	✓	✓		F113160288 -1 (Peak BFB)
20:00		19	DV9F91AD	6				280	✓			Z
20:00		20	DV70DIAD	7				268	✓			E1B1120298-43 1050291
21:11		21	DV70DIAD	8				270	✓			OC1409-1 -4MSP
21:46		22	DV70F1AD	9				262	✓			-6
22:21		23	DV9F11AA	10				270	✓			E1B160288 -1
22:56		24	DV70G1AD	11				264	✓			E1B1120298 -22
23:32		25	DV70S1AD	12				242	✓			-23
0:07		26	DV70G1AD	13				250	✓			-24
0:42		27	DV70R1AD	14				226	✓			-25
1:17		28	DV70G1AD	15				219	✓			-26
1:52		29	DV7R1AD	16				224	✓			-27
2:27		30	DV7R1AD	17				209	✓			-28
3:02		31	DV70K1AE	18				213	✓			-29
3:37		32	DV70M1AC	19				198	✓			-1
4:12		33	DV9GW1AA	20		19	✓	192	100% Ext			E1B160790 -1 (28, 25, 28)
4:47		34	DV9GW1AA	21		58	1.0	284	✓			lost Tune
5:22		35	MB0216 BG	22				314	✓			-1

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SDGA28667
 Lab File ID (Standard): GS2709 Date Analyzed: 02/16/01
 Instrument ID: MG Time Analyzed: 1647
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	3241227	7.03	3338029	12.54	2479562	17.18
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	6482454	7.53	6676058	13.04	4959124	17.68
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	1620614	6.53	1669015	12.04	1239781	16.68
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 G11215	3250211	7.03	3321964	12.54	2364622	17.18
02 G11216	3121395	7.05	3081991	12.55	2157975	17.18
03 G11217	2701385	7.07	2632241	12.56	1963716	17.19
04 G11218	2301558	7.06	2340320	12.55	1722761	17.18
05 G11219	2807866	7.06	2816259	12.55	2087266	17.19
06 G11220	2685536	7.07	2672142	12.56	2117335	17.18
07 G11221	2703053	7.07	2672052	12.56	2019395	17.19
08 G11222	2621627	7.07	2563025	12.56	1868656	17.19
09 G11223	2709661	7.06	2578389	12.55	1829033	17.18
10 G11224	2639719	7.06	2607879	12.55	1945696	17.18
11 G11225	2420479	7.05	2390141	12.54	1799585	17.18
12 G11226	2504326	7.06	2443226	12.55	1707497	17.17
13 G11227	2255702	7.05	2283279	12.53	1677550	17.17
14 G11228	2192643	7.05	2187885	12.54	1569219	17.17
15 G11229	2241232	7.05	2230580	12.53	1651090	17.18
16 G11230	2089001	7.04	2049893	12.54	1604330	17.16
17 G11231	2128718	7.05	2174638	12.54	1571951	17.17
18 G11232	1977886	7.04	2027058	12.55	1541733	17.17
19 G11233	1922786	7.05	1768694	12.55	563203*	17.26
20 G11234	2841643	7.05	2744591	12.55	840858*	17.21
21 G11235	3135463	7.05	3317951	12.54	2196002	17.17
22						

IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk.

STL Los Angeles

Data file : \\SANP2008\D\CHEM\MG.I\0216BG.B\GT1635.D
 Lab Smp Id:
 Inj Date : 16-FEB-2001 16:24
 Operator : AD Inst ID: mg.i
 Smp Info : 50ng bfb,,,,,bfb.M
 Misc Info : 1403-2,,,3,all.SUB
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0216BG.B\BFB.M
 Meth Date : 23-May-2000 08:19 gradyc Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.00 Sample Matrix: WATER
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * Vf * VI

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume

CONCENTRATIONS

RT	EXP RT (REL RT)	MASS	RESPONSE (ug/L)	ON-COL	FINAL (ug/L)	TARGET RANGE	RATIO
1 Bromofluorobenzene							
CAS #: 460-00-4							
1.7671	1.8000 (0.000)	95	209706			0.00- 100.00	100.00
1.7671	1.8000 (0.000)	50	44706			15.00- 40.00	21.32
1.7671	1.8000 (0.000)	75	115128			30.00- 60.00	54.90
1.7671	1.8000 (0.000)	96	16001			5.00- 9.00	7.63
1.7671	1.8000 (0.000)	173	0			0.00- 2.00	0.00
1.7671	1.8000 (0.000)	174	142013			50.00- 0.00	67.72
1.7671	1.8000 (0.000)	175	12353			5.00- 9.00	8.70
1.7671	1.8000 (0.000)	176	138978			95.00- 101.00	97.86
1.7671	1.8000 (0.000)	177	9647			5.00- 9.00	6.94

AD
2/16/2001

Date : 16-FEB-2001 16:24

Client ID:

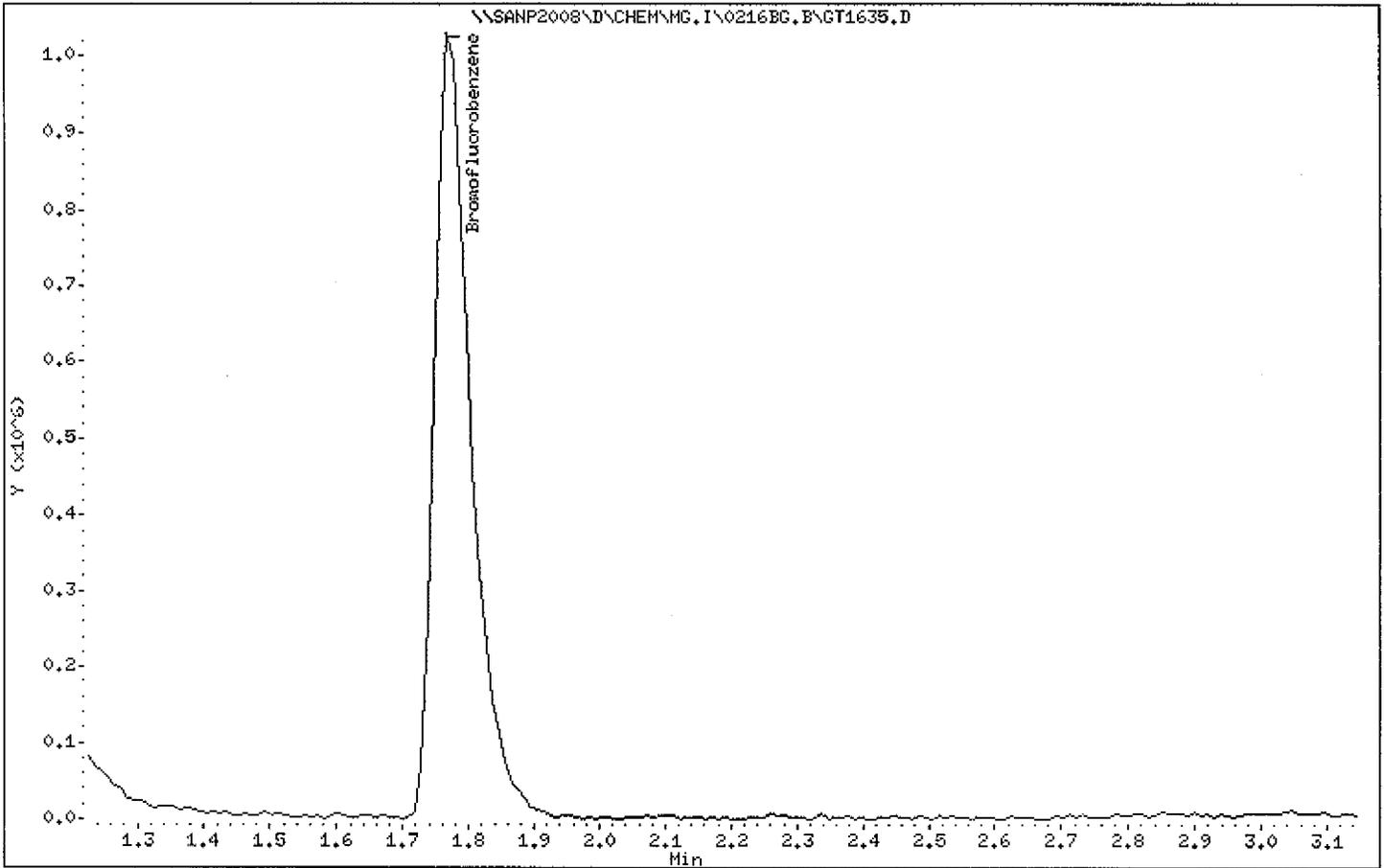
Instrument: mg.i

Sample Info: 50ng bfb,,,,,bfb.M

Operator: AD

Column phase: J&W DB-624

Column diameter: 0,53



Date : 16-FEB-2001 16:24

Client ID:

Instrument: mg.i

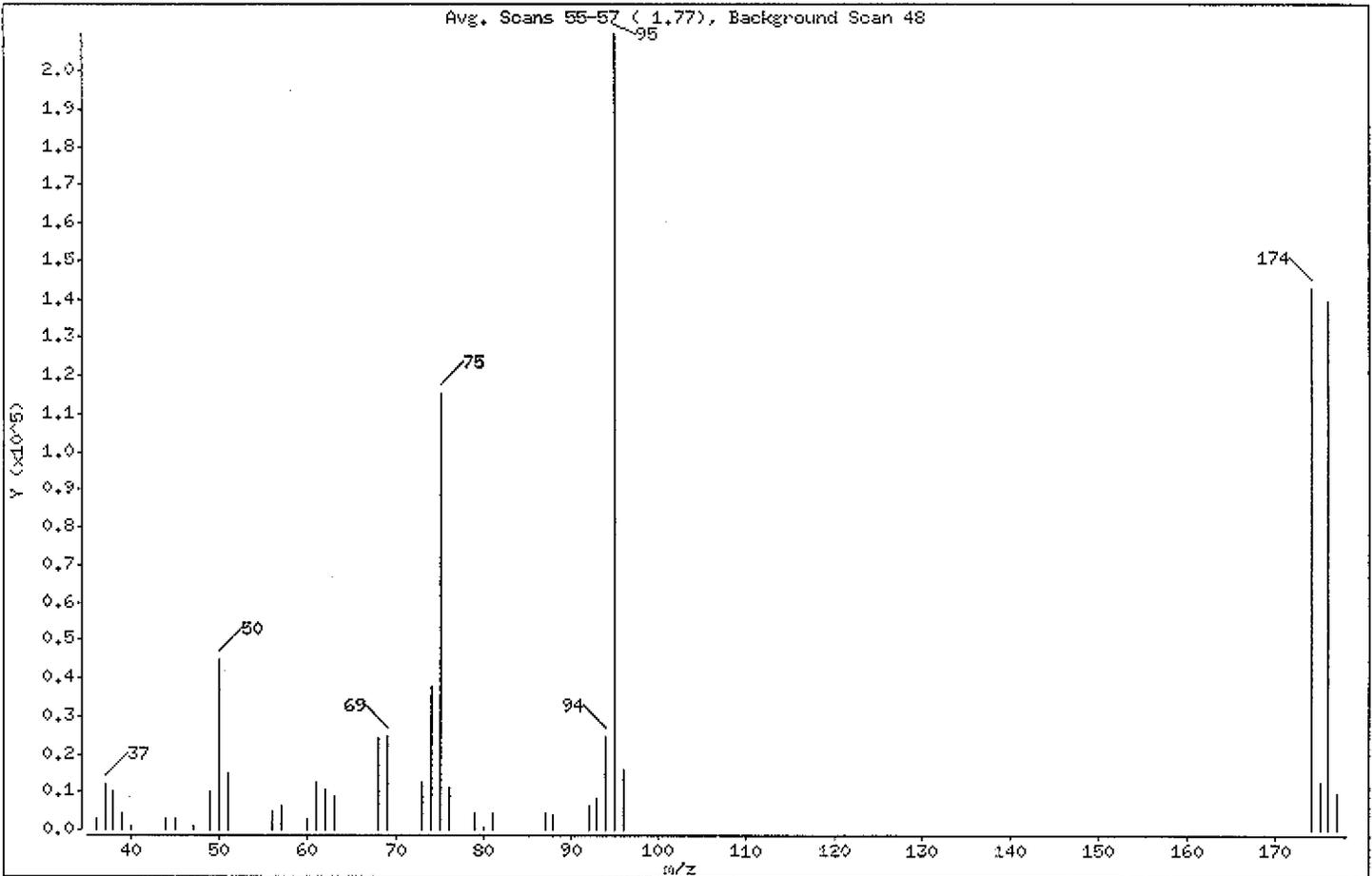
Sample Info: 50ng bfb,,,,,bfb.H

Operator: AD

Column phase: J&M DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.32
75	30.00 - 60.00% of mass 95	54.90
96	5.00 - 9.00% of mass 95	7.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	67.72
175	5.00 - 9.00% of mass 174	5.89 (8.70)
176	95.00 - 101.00% of mass 174	66.27 (97.86)
177	5.00 - 9.00% of mass 176	4.60 (6.94)



Date : 16-FEB-2001 16:24

Client ID:

Instrument: mg.i

Sample Info: 50ng bfb,,,,,bfb.H

Operator: AD

Column phase: J&M DB-624

Column diameter: 0.53

Data File: GT1635.D

Spectrum: Avg. Scans 55-57 (1.77), Background Scan 48

Location of Maximum: 95.00

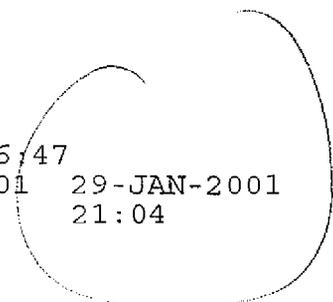
Number of points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2701	51.00	14740	74.00	37784	94.00	24784
37.00	12262	56.00	4656	75.00	115128	95.00	209664
38.00	10023	57.00	6221	76.00	10969	96.00	16001
39.00	4572	60.00	3119	79.00	4461	174.00	141952
40.00	732	61.00	12336	80.00	674	175.00	12353
44.00	3038	62.00	10705	81.00	4552	176.00	138944
45.00	2918	63.00	8796	87.00	4418	177.00	9647
47.00	857	68.00	24056	88.00	3955		
49.00	10306	69.00	24632	92.00	6474		
50.00	44704	73.00	12423	93.00	8347		

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mg.i Injection Date: 16-FEB-2001 16:47
 Lab File ID: GS2709.D Init. Cal. Date(s): 25-JAN-2001 29-JAN-2001
 Analysis Type: SOIL Init. Cal. Times: 12:58 21:04
 Lab Sample ID: 50 PPB 8260B Quant Type: ISTD
 Method: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m



COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
1 Dichlorodifluoromethane	0.70420	0.47033	0.010	-33.2	50.0
3 Chloromethane (**)	0.15262	0.15719	0.100	3.0	50.0
2 Vinyl chloride (*)	0.20484	0.18905	0.010	-7.7	20.0
4 Bromomethane	0.15863	0.14486	0.010	-8.7	50.0
5 Chloroethane	0.10884	0.13435	0.010	23.4	50.0
6 Trichlorofluoromethane	0.89781	0.81256	0.010	-9.5	50.0
7 Acrolein	0.01810	0.01132	0.001	-37.5	50.0
8 1,1-Dichloroethene(*)	0.27154	0.27116	0.010	-0.1	20.0
9 1,1,2-Trichlorotrifluoroeth	0.48827	0.47689	0.010	-2.3	50.0
10 Acetone	0.07973	0.06549	0.010	-17.9	50.0
11 Iodomethane	0.47443	0.41964	0.001	-11.5	50.0
12 Carbon disulfide	0.67854	0.61146	0.010	-9.9	50.0
13 Methylene chloride	0.27618	0.29506	0.010	6.8	50.0
14 t-Butanol	0.05500	0.04934	0.001	-10.3	20.0
16 Acrylonitrile	0.04796	0.03910	0.001	-18.5	20.0
15 trans-1,2-Dichloroethene	0.30553	0.33175	0.010	8.6	50.0
19 Vinyl acetate	0.60172	0.54508	0.010	-9.4	50.0
17 Methyl-tert-butyl ether(MTB	0.97601	0.93232	0.010	-4.5	50.0
18 1,1-Dichloroethane (**)	0.62237	0.65091	0.100	4.6	50.0
20 Isopropyl ether	0.86175	0.90578	0.010	5.1	20.0
22 Tert-butyl ethyl ether	1.11124	1.09964	0.010	-1.0	20.0
21 2,2-Dichloropropane	0.82043	0.79947	0.010	-2.6	50.0
23 cis-1,2-Dichloroethene	0.33409	0.37516	0.010	12.3	50.0
24 2-Butanone	0.12321	0.11295	0.010	-8.3	50.0
25 Bromochloromethane	0.21449	0.24386	0.010	13.7	50.0
27 Tetrahydrofuran	0.06158	0.07728	0.010	25.5	50.0
26 Chloroform (*)	0.88725	0.86205	0.010	-2.8	20.0
M 28 1,2-Dichloroethene (total)	0.31981	0.35345	0.010	10.5	50.0
\$ 29 Dibromofluoromethane	0.74743	0.71784	0.010	-4.0	50.0
30 1,1,1-Trichloroethane	0.95775	0.83167	0.010	-13.2	50.0
31 Carbon Tetrachloride	0.90580	0.84839	0.010	-6.3	50.0
32 1,1-Dichloropropene	0.58722	0.61832	0.010	5.3	50.0
\$ 33 1,2-Dichloroethane-d4	0.63682	0.57489	0.010	-9.7	50.0
34 1,2-Dichloroethane-d4 2nd	0.08392	0.10639	0.010	26.8	50.0
35 Benzene	0.78212	0.96129	0.010	22.9	50.0

AD
2/16/2001

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mg.i Injection Date: 16-FEB-2001 16:47
 Lab File ID: GS2709.D Init. Cal. Date(s): 25-JAN-2001 29-JAN-2001
 Analysis Type: SOIL Init. Cal. Times: 12:58 21:04
 Lab Sample ID: 50 PPB 8260B Quant Type: ISTD
 Method: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
36 1,2-Dichloroethane	0.70215	0.72073	0.010	2.6	50.0
37 Tert-amyl methyl ether	1.01886	1.05763	0.010	3.8	20.0
39 Trichloroethene	0.46459	0.58451	0.010	25.8	50.0
40 1,2-Dichloropropane(*)	0.31600	0.37189	0.010	17.7	20.0
41 Dibromomethane	0.35760	0.38983	0.010	9.0	50.0
42 Bromodichloromethane	0.90244	0.98287	0.010	8.9	50.0
44 2-Chloroethylvinyl ether	0.06910	0.07722	0.010	11.8	20.0
43 1-Bromo-2-chloroethane	0.52958	0.51078	0.010	-3.5	50.0
45 cis-1,3-Dichloropropene	0.58827	0.67288	0.010	14.4	50.0
46 4-Methyl-2-pentanone	0.30802	0.30518	0.010	-0.9	50.0
\$ 47 Toluene-d8	1.09543	1.05426	0.010	-3.8	50.0
48 Toluene (*)	1.17966	1.19216	0.010	1.1	20.0
49 trans-1,3-Dichloropropene	0.70208	0.64197	0.010	-8.6	50.0
50 1,1,2-Trichloroethane	0.41564	0.40934	0.010	-1.5	50.0
51 Tetrachloroethene	0.53457	0.56096	0.010	4.9	50.0
52 1,3-Dichloropropane	0.69534	0.65012	0.010	-6.5	50.0
53 2-Hexanone	0.26500	0.22466	0.010	-15.2	50.0
54 Dibromochloromethane	0.91105	0.84233	0.010	-7.5	50.0
55 1,2-Dibromoethane	0.66866	0.62954	0.010	-5.9	50.0
57 Chlorobenzene (**)	0.96709	0.99737	0.300	3.1	50.0
58 1,1,1,2-Tetrachloroethane	0.64324	0.64962	0.010	1.0	50.0
59 Ethylbenzene (*)	0.44959	0.47732	0.010	6.2	20.0
60 m,p-Xylenes	0.55011	0.58122	0.010	5.7	50.0
61 o-Xylene	0.54788	0.59131	0.010	7.9	50.0
62 Styrene	0.89646	0.95850	0.010	6.9	50.0
M 63 Xylenes (total)	0.54936	0.58458	0.010	6.4	50.0
64 Bromoform (**)	0.71688	0.72006	0.100	0.4	50.0
65 Isopropylbenzene	1.82511	1.85373	0.010	1.6	50.0
\$ 67 4-Bromofluorobenzene	1.37440	1.53067	0.010	11.4	50.0
66 4-Bromofluorobenzene-2nd	0.93993	1.08620	0.010	15.6	50.0
68 Bromobenzene	0.89151	0.88369	0.010	-0.9	50.0
69 1,1,1,2,2-Tetrachloroethane(*)	0.93297	0.86933	0.300	-6.8	50.0
70 1,2,3-Trichloropropane	0.35548	0.32324	0.010	-9.1	50.0
71 n-Propylbenzene	2.75069	2.64066	0.010	-4.0	50.0
72 2-Chlorotoluene	0.63414	0.62624	0.010	-1.2	50.0
73 4-Chlorotoluene	0.63676	0.65204	0.010	2.4	50.0

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mg.i Injection Date: 16-FEB-2001 16:47
 Lab File ID: GS2709.D Init. Cal. Date(s): 25-JAN-2001 29-JAN-2001
 Analysis Type: SOIL Init. Cal. Times: 12:58 21:04
 Lab Sample ID: 50 PPB 8260B Quant Type: ISTD
 Method: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m

COMPOUND	RRF	RF50	MIN RRF	SD	MAX
74 1,3,5-Trimethylbenzene	2.27697	2.13835	0.010	-6.1	50.0
75 tert-Butylbenzene	2.37705	2.34210	0.010	-1.5	50.0
76 1,2,4-Trimethylbenzene	2.33327	2.20376	0.010	-5.6	50.0
77 sec-Butylbenzene	2.93110	2.86244	0.010	-2.3	50.0
78 1,3-Dichlorobenzene	1.31060	1.34442	0.010	2.6	50.0
80 1,4-Dichlorobenzene	1.43811	1.50618	0.010	4.7	50.0
81 p-Isopropyltoluene	2.44746	2.45470	0.010	0.3	50.0
82 1,2-Dichlorobenzene	1.38120	1.41018	0.010	2.1	50.0
83 n-Butylbenzene	2.21813	2.23469	0.010	0.7	50.0
84 1,2-Dibromo-3-chloropropane	0.39570	0.37078	0.010	-6.3	50.0
85 1,2,4-Trichlorobenzene	1.19540	1.28627	0.010	7.6	50.0
86 Hexachlorobutadiene	0.90879	1.05824	0.010	16.4	50.0
87 Napthalene	1.99134	1.91769	0.010	-3.7	50.0
88 1,2,3-Trichlorobenzene	1.15702	1.18342	0.010	2.3	50.0

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\CHEM\MG.I\0216BG.B\GS2709.D
 Lab Smp Id: 50 PPB 8260B
 Inj Date : 16-FEB-2001 16:47
 Operator : AD Inst ID: mg.i
 Smp Info : 50 PPB 8260B,,,3,0,,,8260BGS.M
 Misc Info : 1408-1;91-1;91-2,,5,,2,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Meth Date : 16-Feb-2001 17:12 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.484	1.484	(0.211)	1524448	50.0000	33.39	
3 Chloromethane (**)	50	1.720	1.720	(0.245)	509495	50.0000	51.50	
2 Vinyl chloride (*)	62	1.711	1.711	(0.243)	612757	50.0000	46.14	
4 Bromomethane	94	1.976	1.976	(0.281)	469510	50.0000	45.66	
5 Chloroethane	64	2.065	2.065	(0.294)	435457	50.0000	61.72	
6 Trichlorofluoromethane	101	2.301	2.301	(0.327)	2633684	50.0000	45.25	
7 Acrolein	56	2.704	2.704	(0.385)	366834	500.000	312.7 (A)	
8 1,1-Dichloroethene (*)	96	2.793	2.793	(0.397)	878874	50.0000	49.93	
9 1,1,2-Trichlorotrifluoroethan	151	2.793	2.793	(0.397)	1545701	50.0000	48.83	
10 Acetone	43	2.872	2.872	(0.408)	1061403	250.000	205.4	
11 Iodomethane	142	2.940	2.940	(0.418)	2720297	100.000	88.45	
12 Carbon disulfide	76	2.999	2.999	(0.426)	1981864	50.0000	45.06	
13 Methylene chloride	84	3.324	3.324	(0.473)	956360	50.0000	53.42	
14 t-Butanol	59	3.570	3.570	(0.508)	639660	200.000	179.4 (aQ)	

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
16 Acrylontrile	53	3.649	3.649	(0.519)	1267396	500.000	407.7 (A)
15 trans-1,2-Dichloroethene	96	3.659	3.659	(0.520)	1075278	50.0000	54.29
19 Vinyl acetate	43	4.387	4.387	(0.624)	3533486	100.000	90.59
17 Methyl-tert-butyl ether [MTBE]	73	3.698	3.698	(0.526)	3021850	50.0000	47.76
18 1,1-Dichloroethane (**)	63	4.259	4.259	(0.606)	2109758	50.0000	52.29
20 Isopropyl ether	45	4.416	4.416	(0.628)	2935833	50.0000	52.55
22 Tert-butyl ethyl ether	59	4.977	4.977	(0.708)	3564188	50.0000	49.48
21 2,2-Dichloropropane	77	5.115	5.115	(0.727)	2591269	50.0000	48.72
23 cis-1,2-Dichloroethene	96	5.144	5.144	(0.731)	1215970	50.0000	56.14
24 2-Butanone	43	5.223	5.223	(0.743)	1830427	250.000	229.2
25 Bromochloromethane	128	5.518	5.518	(0.785)	790413	50.0000	56.84
27 Tetrahydrofuran	42	5.626	5.626	(0.800)	250475	50.0000	62.74
26 Chloroform (*)	83	5.675	5.675	(0.807)	2794104	50.0000	48.58
M 28 1,2-Dichloroethene (total)	100				2291249	100.000	110.4
§ 29 Dibromofluoromethane	111	5.941	5.941	(0.845)	2326679	50.0000	48.02
30 1,1,1-Trichloroethane	97	5.921	5.921	(0.842)	2695634	50.0000	43.42
31 Carbon Tetrachloride	117	6.187	6.187	(0.880)	2749839	50.0000	46.83
32 1,1-Dichloropropene	75	6.197	6.197	(0.881)	2004114	50.0000	52.65
§ 33 1,2-Dichloroethane-d4	65	6.472	6.472	(0.920)	1863364	50.0000	45.14
34 1,2-Dichloroethane-d4 2nd	102	6.472	6.472	(0.920)	344834	50.0000	63.38
35 Benzene	78	6.541	6.541	(0.930)	3115770	50.0000	61.45
36 1,2-Dichloroethane	62	6.600	6.600	(0.938)	2336046	50.0000	51.32
37 Tert-amyl methyl ether	73	6.836	6.836	(0.972)	3428006	50.0000	51.90
* 38 Fluorobenzene	96	7.033	7.033	(1.000)	3241227	50.0000	
39 Trichloroethene	130	7.673	7.673	(1.091)	1894533	50.0000	62.90
40 1,2-Dichloropropane(*)	63	8.076	8.076	(1.148)	1205368	50.0000	58.84
41 Dibromomethane	93	8.263	8.263	(1.175)	1263523	50.0000	54.50
42 Bromodichloromethane	83	8.587	8.587	(1.221)	3185702	50.0000	54.46
44 2-Chloroethylvinyl ether	106	9.207	9.207	(1.309)	500575	100.000	111.8 (A)
43 1-Bromo-2-chloroethane	63	9.099	9.099	(1.294)	1655552	50.0000	48.22
45 cis-1,3-Dichloropropene	75	9.404	9.404	(1.337)	2180954	50.0000	57.19
46 4-Methyl-2-pentanone	43	9.758	9.758	(1.387)	4945828	250.000	247.7
§ 47 Toluene-d8	98	9.857	9.857	(0.786)	3519164	50.0000	48.12
48 Toluene (*)	91	9.975	9.975	(0.795)	3979467	50.0000	50.53
49 trans-1,3-Dichloropropene	75	10.457	10.457	(0.834)	2142907	50.0000	45.72
50 1,1,2-Trichloroethane	97	10.781	10.781	(0.860)	1366383	50.0000	49.24
51 Tetrachloroethene	164	10.978	10.978	(0.875)	1872492	50.0000	52.47
52 1,3-Dichloropropane	76	11.067	11.067	(0.882)	2170130	50.0000	46.75
53 2-Hexanone	43	11.322	11.322	(0.903)	3749613	250.000	211.9
54 Dibromochloromethane	129	11.480	11.480	(0.915)	2811713	50.0000	46.23
55 1,2-Dibromoethane	107	11.627	11.627	(0.927)	2101424	50.0000	47.07
* 56 Chlorobenzene-d5	117	12.542	12.542	(1.000)	3338029	50.0000	
57 Chlorobenzene (**)	112	12.601	12.601	(1.005)	3329260	50.0000	51.56
58 1,1,1,2-Tetrachloroethane	131	12.788	12.788	(1.020)	2168447	50.0000	50.50
59 Ethylbenzene (*)	106	12.857	12.857	(1.025)	1593294	50.0000	53.08
60 m,p-Xylenes	106	13.103	13.103	(1.045)	3880261	100.000	105.6
61 o-Xylene	106	13.851	13.851	(1.104)	1973806	50.0000	53.96

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
62 Styrene	104		13.890	13.890	(1.107)	3199485	50.0000	53.46
M 63 Xylenes (total)	100					5854067	150.0000	159.6
64 Bromoform (**)	173		14.195	14.195	(1.132)	2403578	50.0000	50.22
65 Isopropylbenzene	105		14.598	14.598	(1.164)	6187789	50.0000	50.78
\$ 67 4-Bromofluorobenzene	95		14.874	14.874	(0.866)	3795397	50.0000	55.68
66 4-Bromofluorobenzene-2nd	174		14.874	14.874	(0.866)	2693288	50.0000	57.78
68 Bromobenzene	156		15.120	15.120	(0.880)	2191170	50.0000	49.56
69 1,1,2,2-Tetrachloroethane(**)	83		15.257	15.257	(0.888)	2155554	50.0000	46.59
70 1,2,3-Trichloropropane	110		15.287	15.287	(0.890)	801498	50.0000	45.47(Q)
71 n-Propylbenzene	91		15.425	15.425	(0.898)	6547670	50.0000	48.00
72 2-Chlorotoluene	126		15.543	15.543	(0.905)	1552803	50.0000	49.38
73 4-Chlorotoluene	126		15.769	15.769	(0.918)	1616768	50.0000	51.20
74 1,3,5-Trimethylbenzene	105		15.808	15.808	(0.920)	5302167	50.0000	46.96
75 tert-Butylbenzene	119		16.438	16.438	(0.957)	5807374	50.0000	49.26
76 1,2,4-Trimethylbenzene	105		16.546	16.546	(0.963)	5464368	50.0000	47.22
77 sec-Butylbenzene	105		16.881	16.881	(0.983)	7097592	50.0000	48.83
78 1,3-Dichlorobenzene	146		17.028	17.028	(0.991)	3333563	50.0000	51.29
* 79 1,4-Dichlorobenzene-d4	152		17.176	17.176	(1.000)	2479562	50.0000	
80 1,4-Dichlorobenzene	146		17.225	17.225	(1.003)	3734665	50.0000	52.37
81 p-Isopropyltoluene	119		17.215	17.215	(1.002)	6086574	50.0000	50.15
82 1,2-Dichlorobenzene	146		17.943	17.943	(1.045)	3496636	50.0000	51.05
83 n-Butylbenzene	91		18.042	18.042	(1.050)	5541051	50.0000	50.37
84 1,2-Dibromo-3-chloropropane	157		19.566	19.566	(1.139)	919384	50.0000	46.85(Q)
85 1,2,4-Trichlorobenzene	180		21.259	21.259	(1.238)	3189381	50.0000	53.80
86 Hexachlorobutadiene	225		21.682	21.682	(1.262)	2623965	50.0000	58.22
87 Napthalene	128		21.721	21.721	(1.265)	4755040	50.0000	48.15
88 1,2,3-Trichlorobenzene	180		22.242	22.242	(1.295)	2934355	50.0000	51.14

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.

STL Los Angeles Calibration Internal Standard Area Check

CCV File : \\SANP2008\D\CHEM\MG.I\0216BG.B/GS2709.D
Inj. Date : 16-FEB-2001 16:47

ICAL Mid Point : //SANP2008/D/chem/mg.i/0129AG.B/GS2683.D
Inj. Date : 29-JAN-2001 19:58

IS NAME	ICAL RT	CCV RT	DIFF.	ICAL AREA	CCV AREA	%DIFF.
Fluorobenzene	7.09	7.03	0.05	2070729	3241227	156.5%
Chlorobenzene-d5	12.58	12.54	0.03	1827581	3338029	182.6%
1,4-Dichlorobenzene-d4	17.22	17.18	0.04	1341088	2479562	184.9%

8260B Area difference criteria: 50%-200%

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i
 Lab File ID: GS2709.D
 Lab Smp Id: 50 PPB 8260B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: AD
 Method File: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Misc Info: 1408-1;91-1;91-2,,5,,2,1-8260B.SUB

Calibration Date: 16-FEB-2001
 Calibration Time: 16:47
 Level: LOW
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	3241227	1620614	6482454	3241227	0.00
56 Chlorobenzene-d5	3338029	1669015	6676058	3338029	0.00
79 1,4-Dichlorobenze	2479562	1239781	4959124	2479562	0.00

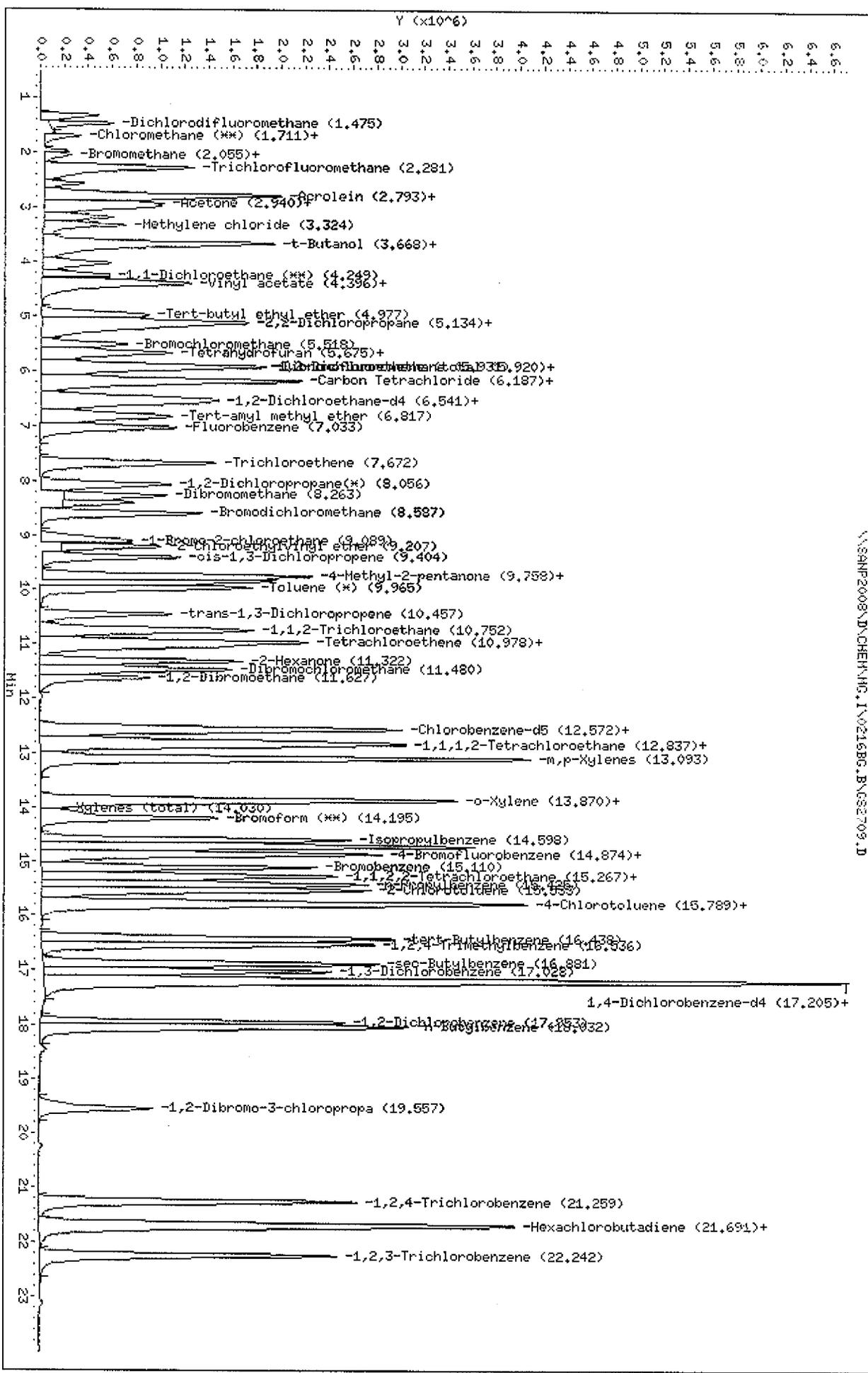
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.03	6.53	7.53	7.03	0.00
56 Chlorobenzene-d5	12.54	12.04	13.04	12.54	0.00
79 1,4-Dichlorobenze	17.18	16.68	17.68	17.18	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SAMP2008\N\CHEN\MG.I\0216BG.B\682709.D
 Date: 16-FEB-2001 16:47
 Client ID:
 Sample Info: 50 PFB 8260B,,,3,0,,,8260BGS.H
 Column phase: J&W DB-624

Instrument: mg.i
 Operator: AD
 Column diameter: 0.53

\\SAMP2008\N\CHEN\MG.I\0216BG.B\682709.D



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\CHEM\MG.I\0216BG.B\G11215.D
 Lab Smp Id: LCS-0216BG Client Smp ID: G11215
 Inj Date : 16-FEB-2001 17:39
 Operator : AD Inst ID: mg.i
 Smp Info : LCS-0216BG,LCS,2,,0,1,0,8260BGS.M,G11215
 Misc Info : 1399-2;91-1;91-2,,5,,3,SPK.SUB,SH.SPK
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Meth Date : 16-Feb-2001 17:12 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SPK.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
8 1,1-Dichloroethene(*)	96	2.784	2.793	(0.396)	1044436	59.1714	59.17
\$ 29 Dibromofluoromethane	111	5.942	5.941	(0.845)	2120044	43.6350	43.64
\$ 33 1,2-Dichloroethane-d4	65	6.474	6.472	(0.920)	1743708	42.1223	42.12
34 1,2-Dichloroethane-d4 2nd	102	6.474	6.472	(0.920)	313156	57.4029	57.40
35 Benzene	78	6.533	6.541	(0.929)	3145379	61.8665	61.87
* 38 Fluorobenzene	96	7.034	7.033	(1.000)	3250211	50.0000	
39 Trichloroethene	130	7.684	7.673	(1.092)	1904189	63.0517	63.05
\$ 47 Toluene-d8	98	9.858	9.857	(0.786)	3449735	47.3997	47.40
48 Toluene (*)	91	9.986	9.975	(0.796)	4038607	51.5289	51.53
* 56 Chlorobenzene-d5	117	12.544	12.542	(1.000)	3321964	50.0000	
57 Chlorobenzene (**)	112	12.593	12.601	(1.004)	3292017	51.2352	51.24
\$ 67 4-Bromofluorobenzene	95	14.875	14.874	(0.866)	3687362	56.7299	56.73
66 4-Bromofluorobenzene-2nd	174	14.875	14.874	(0.866)	2602412	58.5452	58.54
* 79 1,4-Dichlorobenzene-d4	152	17.177	17.176	(1.000)	2364622	50.0000	

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

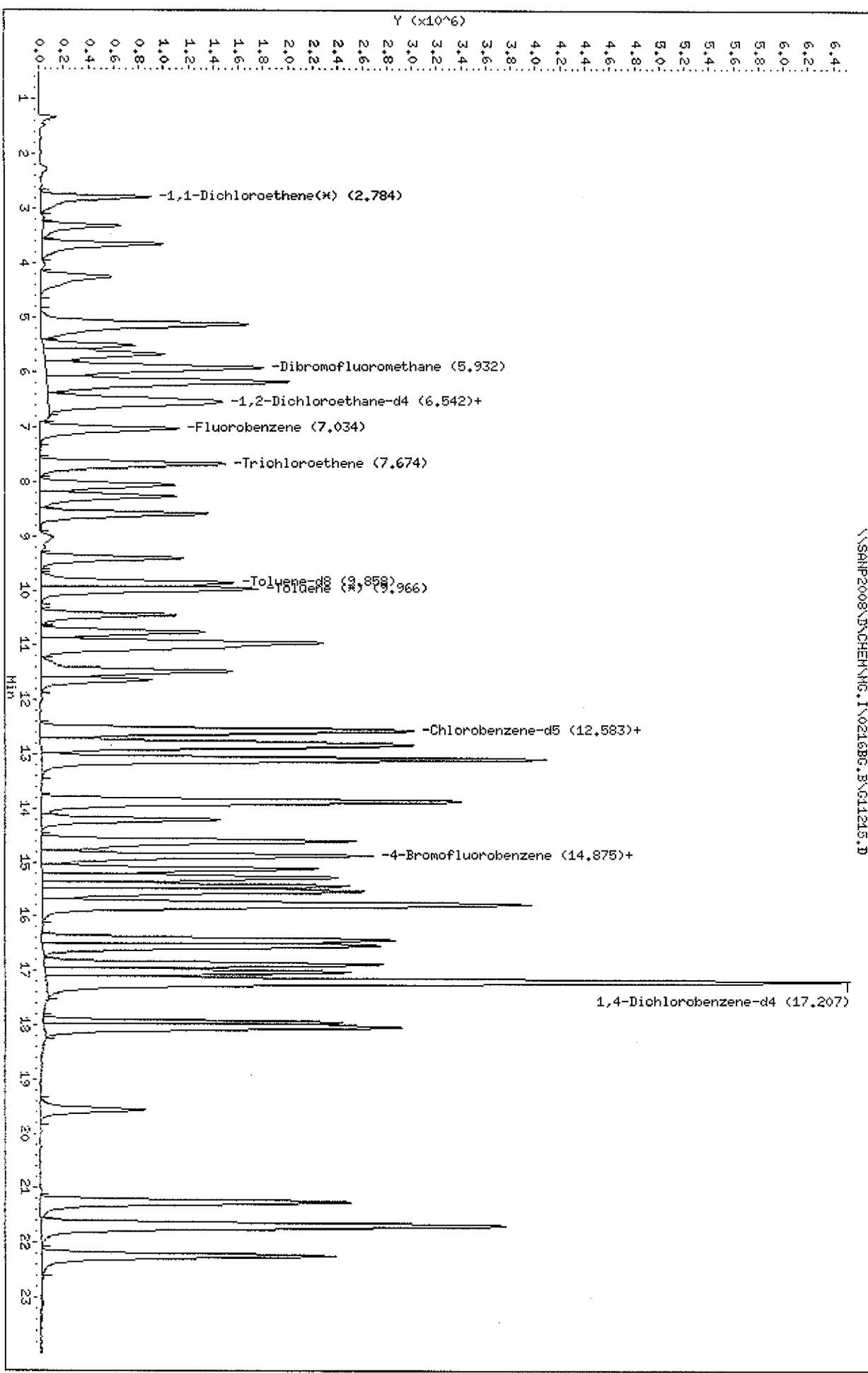
Instrument ID: mg.i
 Lab File ID: G11215.D
 Lab Smp Id: LCS-0216BG
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: AD
 Method File: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Misc Info: 1399-2;91-1;91-2,,5,,3,SPK.SUB,SH.SPK

Calibration Date: 16-FEB-2001
 Calibration Time: 16:47
 Client Smp ID: G11215
 Level: LOW
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	3241227	1620614	6482454	3250211	0.28
56 Chlorobenzene-d5	3338029	1669015	6676058	3321964	-0.48
79 1,4-Dichlorobenze	2479562	1239781	4959124	2364622	-4.64

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.03	6.53	7.53	7.03	0.02
56 Chlorobenzene-d5	12.54	12.04	13.04	12.54	0.01
79 1,4-Dichlorobenze	17.18	16.68	17.68	17.18	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\CHEM\MG.I\0216BG.B\G11216.D
 Lab Smp Id: MB-0216BG Client Smp ID: G11216
 Inj Date : 16-FEB-2001 18:14
 Operator : AD Inst ID: mg.i
 Smp Info : MB-0216BG,BLANK,2,,0,1,0,8260BGS.M,G11216
 Misc Info : NaHSO4,,5,,3,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Meth Date : 16-Feb-2001 17:12 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 3 QC Sample: BLANK
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
\$ 29 Dibromofluoromethane	111	5.962	5.941	(0.845)	2126340	45.5707	45.57	
\$ 33 1,2-Dichloroethane-d4	65	6.483	6.472	(0.919)	1608573	40.4615	40.46	
34 1,2-Dichloroethane-d4 2nd	102	6.483	6.472	(0.919)	263223	50.2411	50.24	
* 38 Fluorobenzene	96	7.054	7.033	(1.000)	3121395	50.0000		
\$ 47 Toluene-d8	98	9.877	9.857	(0.787)	3197862	47.3602	47.36	
* 56 Chlorobenzene-d5	117	12.553	12.542	(1.000)	3081991	50.0000		
\$ 67 4-Bromofluorobenzene	95	14.875	14.874	(0.866)	3251851	54.8204	54.82	
66 4-Bromofluorobenzene-2nd	174	14.885	14.874	(0.867)	2196974	54.1571	54.16	
* 79 1,4-Dichlorobenzene-d4	152	17.177	17.176	(1.000)	2157975	50.0000	(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Los Angeles

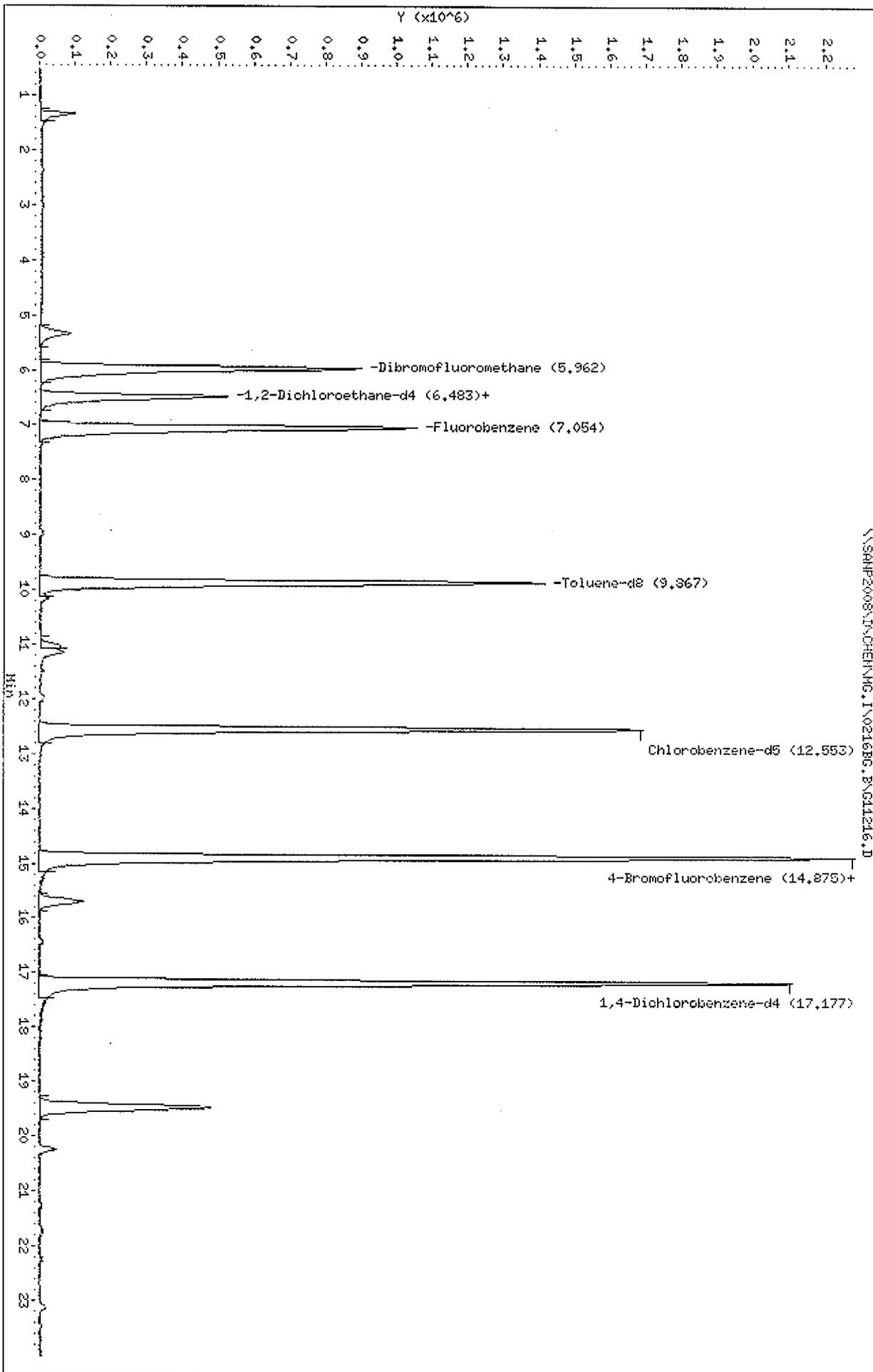
INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i	Calibration Date: 16-FEB-2001
Lab File ID: G11216.D	Calibration Time: 16:47
Lab Smp Id: MB-0216BG	Client Smp ID: G11216
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: AD	
Method File: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m	
Misc Info: NaHSO4,,5,,3,1-8260B.SUB	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	3241227	1620614	6482454	3121395	-3.70
56 Chlorobenzene-d5	3338029	1669015	6676058	3081991	-7.67
79 1,4-Dichlorobenze	2479562	1239781	4959124	2157975	-12.97

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.03	6.53	7.53	7.05	0.29
56 Chlorobenzene-d5	12.54	12.04	13.04	12.55	0.09
79 1,4-Dichlorobenze	17.18	16.68	17.68	17.18	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Date : 16-FEB-2001 18:14

Client ID: G11216

Instrument: mg.i

Sample Info: MB-0216BG,BLANK,2,,0,1,0,8260BGS,H,G11216

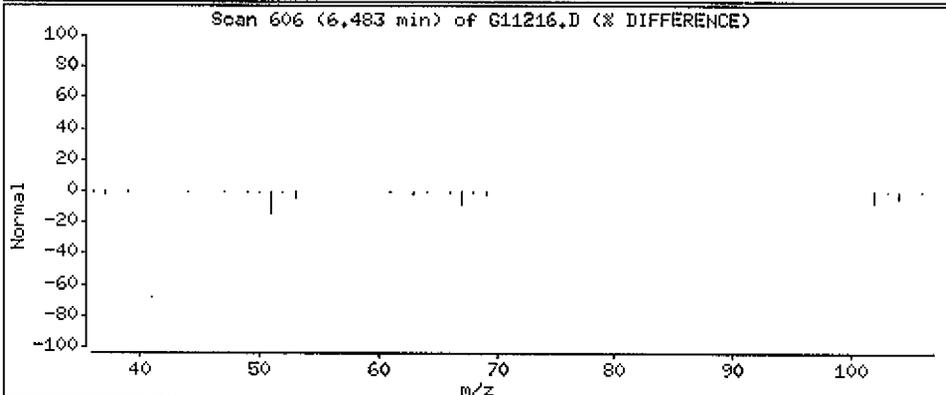
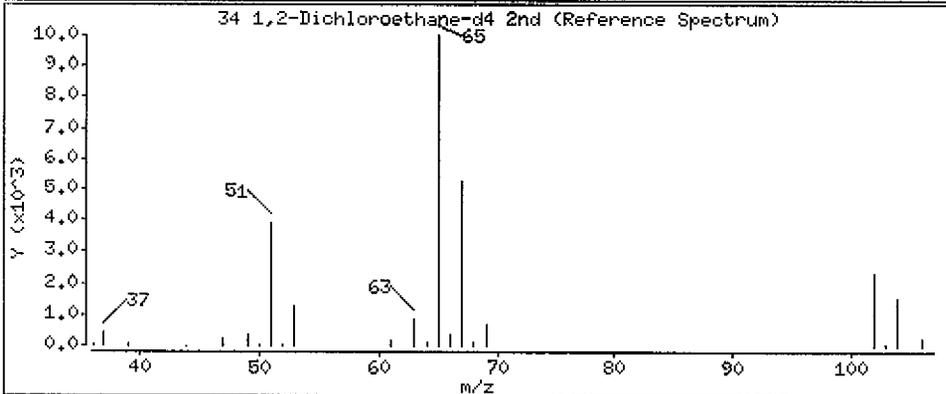
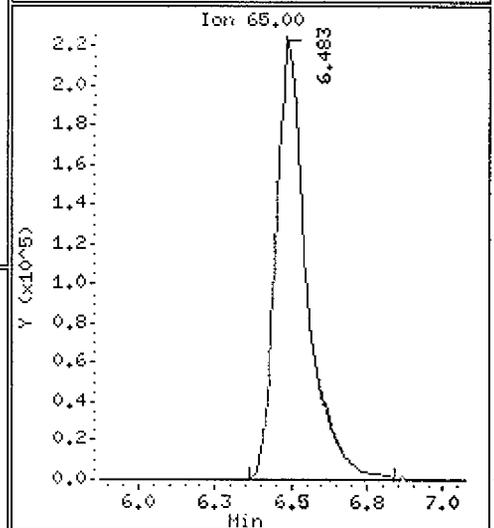
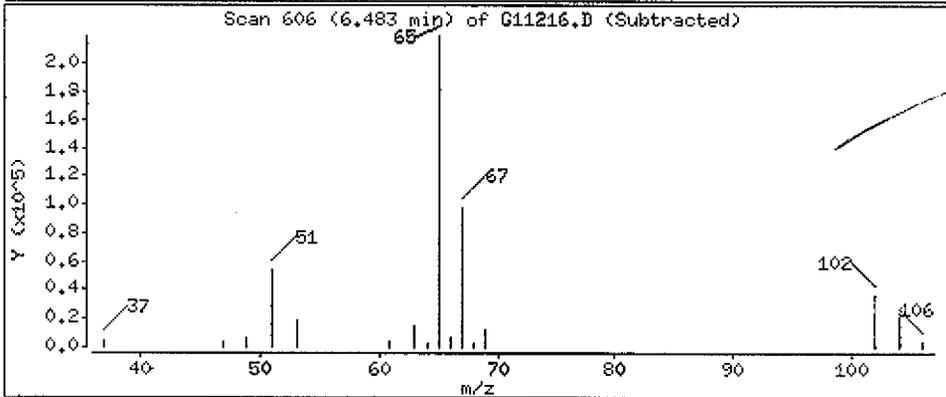
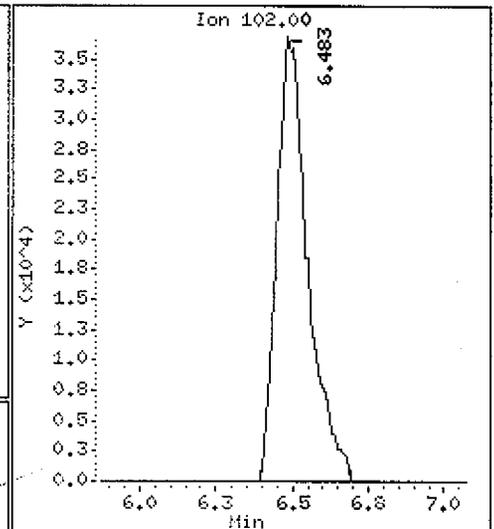
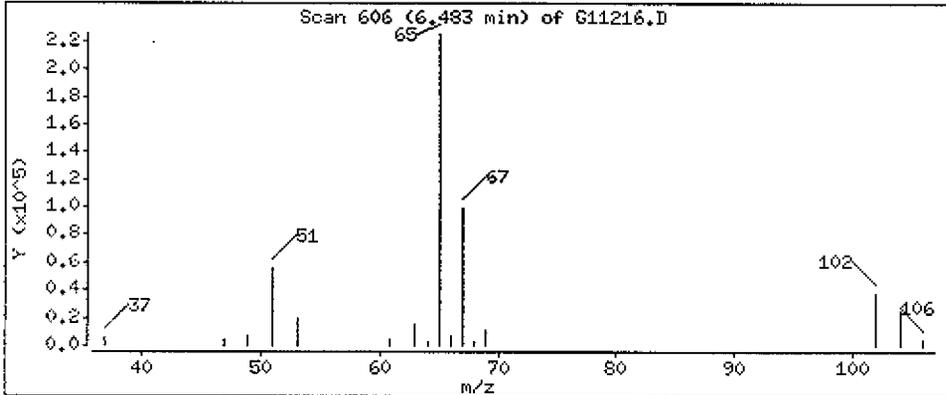
Operator: AD

Column phase: J&W DB-624

Column diameter: 0.53

34 1,2-Dichloroethane-d4 2nd

Concentration: 50.24 ug/Kg



Date: 16-FEB-2001 18:14

Client ID: G11216

Instrument: mg.i

Sample Info: MB-0216BG,BLANK,2,,0,1,0,8260BGS,M,G11216

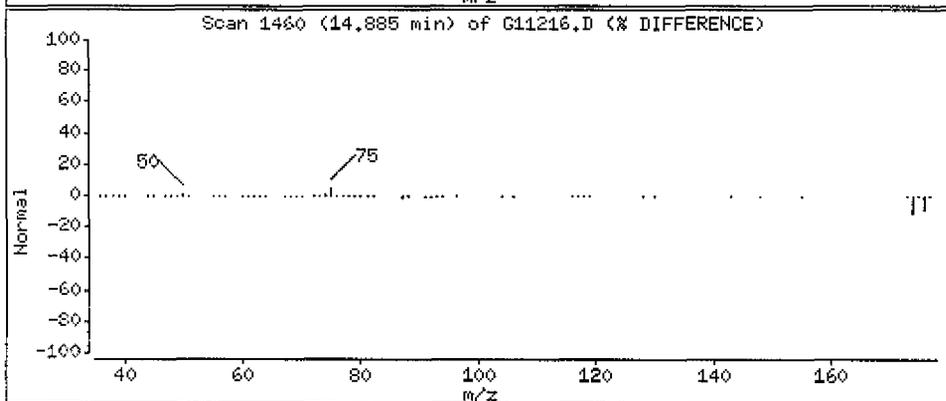
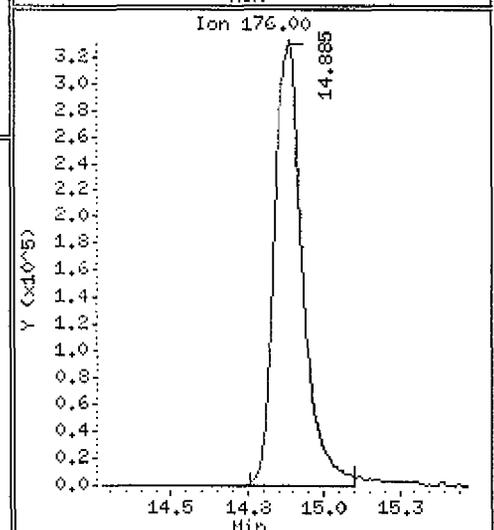
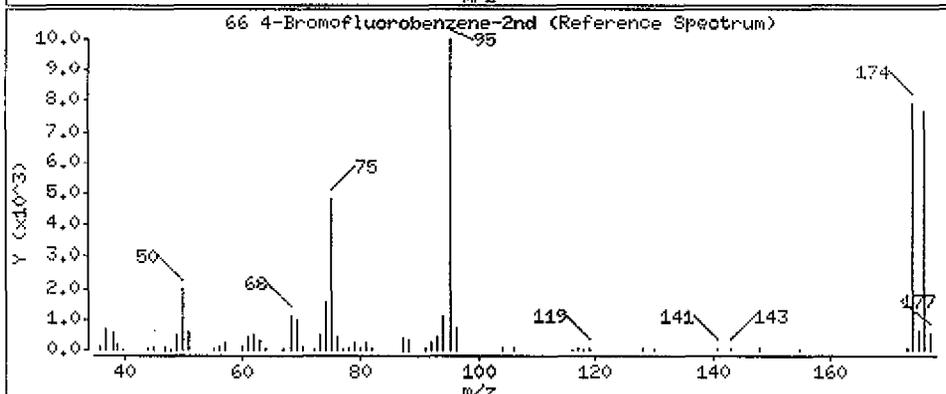
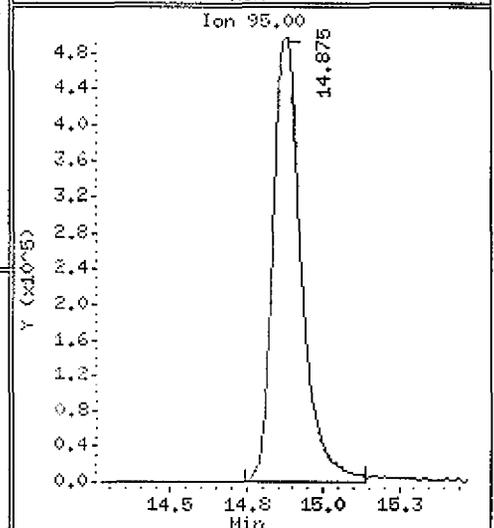
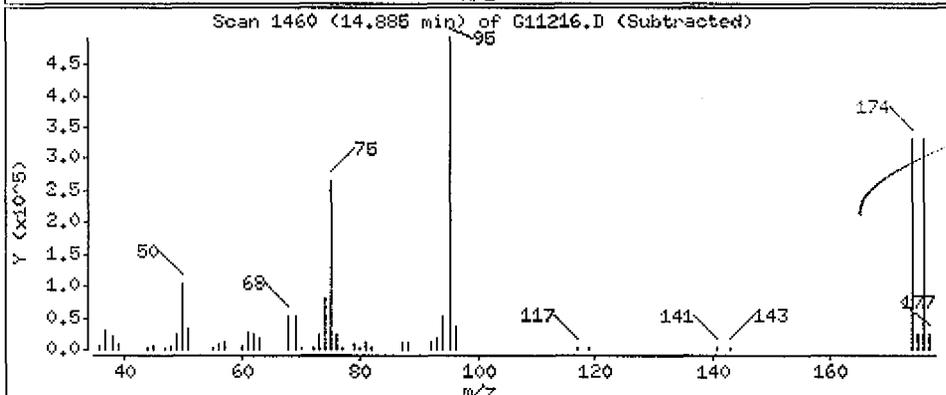
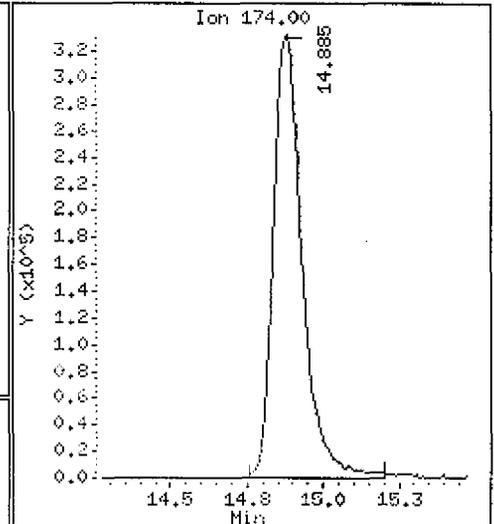
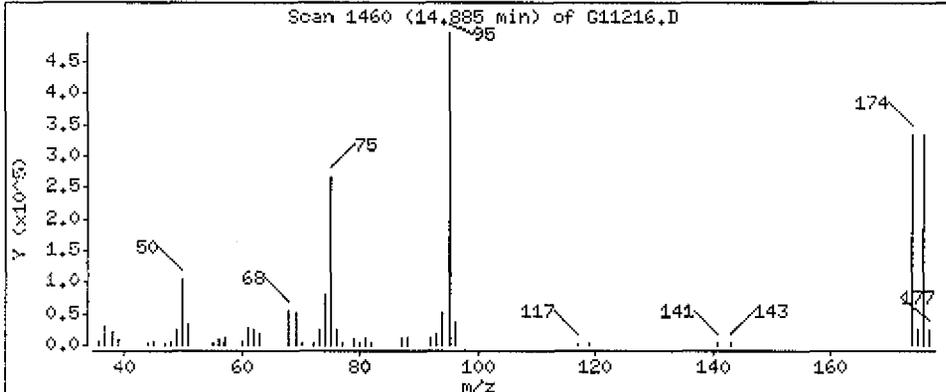
Operator: AD

Column phase: J&W DB-624

Column diameter: 0.53

66 4-Bromofluorobenzene-2nd

Concentration: 54.16 ug/Kg



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\CHEM\MG.I\0216BG.B\G11220.D
 Lab Smp Id: DV7QD1AE Client Smp ID: G11220
 Inj Date : 16-FEB-2001 20:36
 Operator : AD Inst ID: mg.i
 Smp Info : DV7QD1AE,MS,2,,0,1,0,8260BGS.M,G11220
 Misc Info : E1B150298-4S,,5,,3,SPK.SUB,SH.SPK
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Meth Date : 16-Feb-2001 17:12 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 7 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SPK.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws * (100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/Kg)	(ug/Kg)
8 1,1-Dichloroethene(*)	96		2.808	2.793	(0.397)	752424	51.5909	51.59
\$ 29 Dibromofluoromethane	111		5.975	5.941	(0.845)	2080551	51.8262	51.83
\$ 33 1,2-Dichloroethane-d4	65		6.507	6.472	(0.921)	1588242	46.4340	46.43
34 1,2-Dichloroethane-d4 2nd	102		6.497	6.472	(0.919)	251181	55.7238	55.72
35 Benzene	78		6.566	6.541	(0.929)	2382343	56.7110	56.71
* 38 Fluorobenzene	96		7.067	7.033	(1.000)	2685536	50.0000	
39 Trichloroethene	130		7.707	7.673	(1.090)	1426230	57.1553	57.16
\$ 47 Toluene-d8	98		9.871	9.857	(0.786)	2780863	47.5013	47.50
48 Toluene (*)	91		9.999	9.975	(0.796)	2989324	47.4163	47.42
* 56 Chlorobenzene-d5	117		12.557	12.542	(1.000)	2672142	50.0000	
57 Chlorobenzene (**)	112		12.606	12.601	(1.004)	2489299	48.1636	48.16
\$ 67 4-Bromofluorobenzene	95		14.879	14.874	(0.866)	3090527	53.1008	53.10
66 4-Bromofluorobenzene-2nd	174		14.889	14.874	(0.867)	2133808	53.6096	53.61
* 79 1,4-Dichlorobenzene-d4	152		17.181	17.176	(1.000)	2117335	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i	Calibration Date: 16-FEB-2001
Lab File ID: G11220.D	Calibration Time: 16:47
Lab Smp Id: DV7QD1AE	Client Smp ID: G11220
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: AD	
Method File: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m	
Misc Info: E1B150298-4S,,5,,3,SPK.SUB,SH.SPK	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	3241227	1620614	6482454	2685536	-17.14
56 Chlorobenzene-d5	3338029	1669015	6676058	2672142	-19.95
79 1,4-Dichlorobenze	2479562	1239781	4959124	2117335	-14.61

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.03	6.53	7.53	7.07	0.49
56 Chlorobenzene-d5	12.54	12.04	13.04	12.56	0.12
79 1,4-Dichlorobenze	17.18	16.68	17.68	17.18	0.03

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\CHEM\MG.I\0216BG.B\G11221.D
 Lab Smp Id: DV7QD1AF Client Smp ID: G11221
 Inj Date : 16-FEB-2001 21:11
 Operator : AD Inst ID: mg.i
 Smp Info : DV7QD1AF,MSD,2,,0,1,0,8260BGS.M,G11221
 Misc Info : E1B150298-4D,,5,,3,SPK.SUB,SH.SPK
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Meth Date : 16-Feb-2001 17:12 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 8 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SPK.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws * (100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
8 1,1-Dichloroethene(*)	96	2.814	2.793	(0.398)	752124	51.2361	51.24
§ 29 Dibromofluoromethane	111	5.981	5.941	(0.846)	2068728	51.1977	51.20
§ 33 1,2-Dichloroethane-d4	65	6.503	6.472	(0.919)	1587193	46.1026	46.10
34 1,2-Dichloroethane-d4 2nd	102	6.503	6.472	(0.919)	246857	54.4097	54.41
35 Benzene	78	6.572	6.541	(0.929)	2349284	55.5616	55.56
* 38 Fluorobenzene	96	7.074	7.033	(1.000)	2703053	50.0000	
39 Trichloroethene	130	7.713	7.673	(1.090)	1453127	57.8558	57.86
§ 47 Toluene-d8	98	9.877	9.857	(0.786)	2768447	47.2908	47.29
48 Toluene (*)	91	10.005	9.975	(0.796)	2914963	46.2384	46.24
* 56 Chlorobenzene-d5	117	12.563	12.542	(1.000)	2672052	50.0000	
57 Chlorobenzene (**)	112	12.602	12.601	(1.003)	2460141	47.6010	47.60
§ 67 4-Bromofluorobenzene	95	14.885	14.874	(0.866)	3058166	55.0931	55.09
66 4-Bromofluorobenzene-2nd	174	14.895	14.874	(0.867)	2154848	56.7639	56.76
* 79 1,4-Dichlorobenzene-d4	152	17.187	17.176	(1.000)	2019395	50.0000	

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i	Calibration Date: 16-FEB-2001
Lab File ID: G11221.D	Calibration Time: 16:47
Lab Smp Id: DV7QD1AF	Client Smp ID: G11221
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: AD	
Method File: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m	
Misc Info: E1B150298-4D,,5,,3,SPK.SUB,SH.SPK	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	3241227	1620614	6482454	2703053	-16.60
56 Chlorobenzene-d5	3338029	1669015	6676058	2672052	-19.95
79 1,4-Dichlorobenze	2479562	1239781	4959124	2019395	-18.56

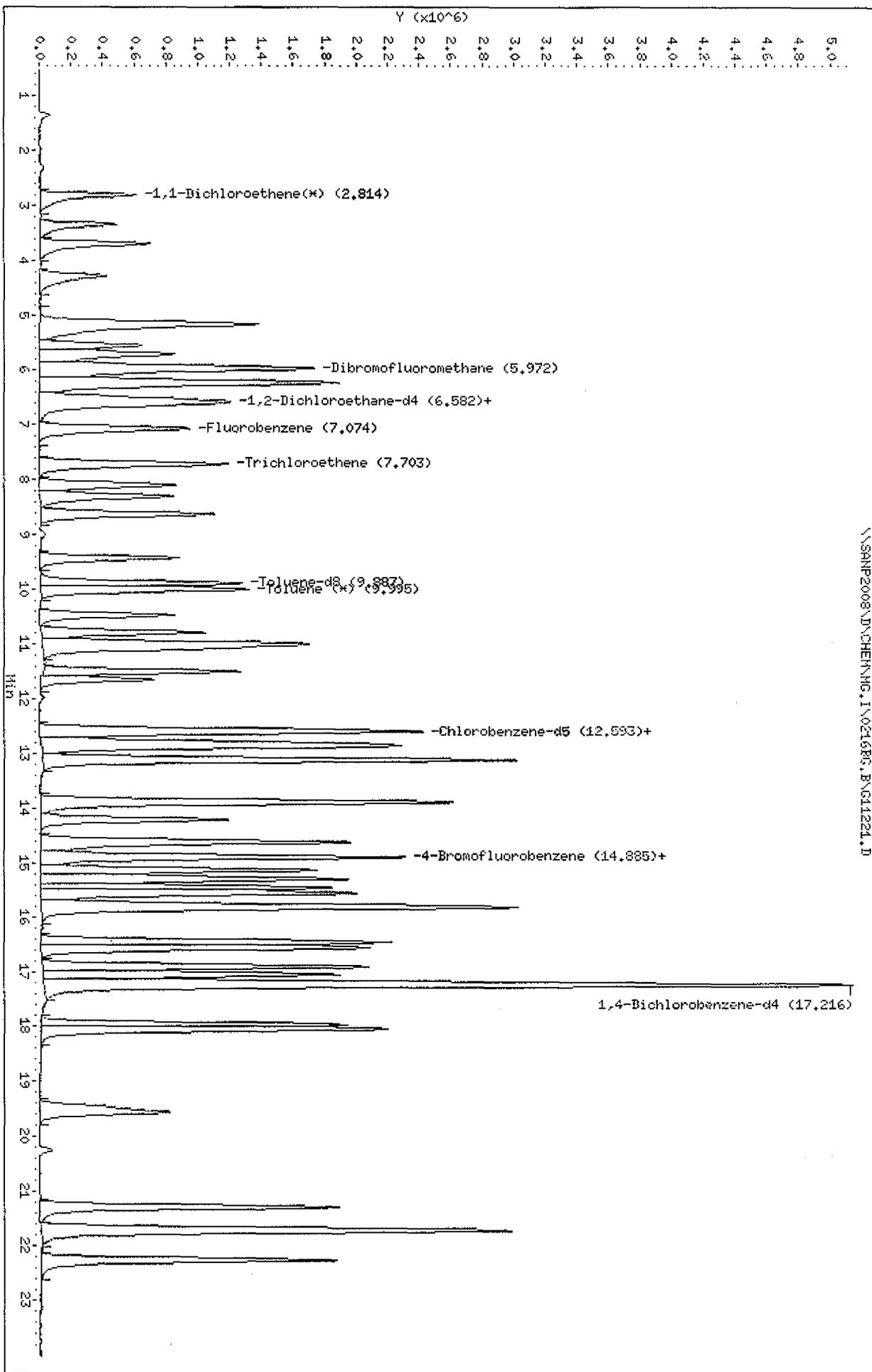
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.03	6.53	7.53	7.07	0.58
56 Chlorobenzene-d5	12.54	12.04	13.04	12.56	0.17
79 1,4-Dichlorobenze	17.18	16.68	17.68	17.19	0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SANNP2008\N\CHEN\MS, I\021605, B\G11221.D
Date: 16-FEB-2001 21:11
Client ID: G11221
Sample Info: DW7QDIAF, MSD, 2,, 0, 1, 0, 82660803, H, G11221
Column Phase: J&M DB-624

Instrument: mg.i
Operator: AD
Column diameter: 0.53

\\SANNP2008\N\CHEN\MS, I\021605, B\G11221.D



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\CHEM\MG.I\0216BG.B\G11223.D
 Lab Smp Id: DV9F11AA Client Smp ID: G11223
 Inj Date : 16-FEB-2001 22:21
 Operator : AD Inst ID: mg.i
 Smp Info : DV9F11AA,,2,,0,1,0,8260BGS.M,G11223
 Misc Info : E1B160288-1,,5,,0,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Meth Date : 16-Feb-2001 17:12 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws * (100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
\$ 29 Dibromofluoromethane	111		5.979	5.941	(0.847)	1870134	46.1700	46.17
\$ 33 1,2-Dichloroethane-d4	65		6.500	6.472	(0.921)	1479708	42.8757	42.88
34 1,2-Dichloroethane-d4 2nd	102		6.510	6.472	(0.922)	214496	47.1616	47.16
* 38 Fluorobenzene	96		7.061	7.033	(1.000)	2709661	50.0000	
\$ 47 Toluene-d8	98		9.884	9.857	(0.788)	2542348	45.0061	45.01
* 56 Chlorobenzene-d5	117		12.550	12.542	(1.000)	2578389	50.0000	
\$ 67 4-Bromofluorobenzene	95		14.872	14.874	(0.865)	2646356	52.6362	52.64
66 4-Bromofluorobenzene-2nd	174		14.882	14.874	(0.866)	1784138	51.8900	51.89
* 79 1,4-Dichlorobenzene-d4	152		17.184	17.176	(1.000)	1829033	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Los Angeles

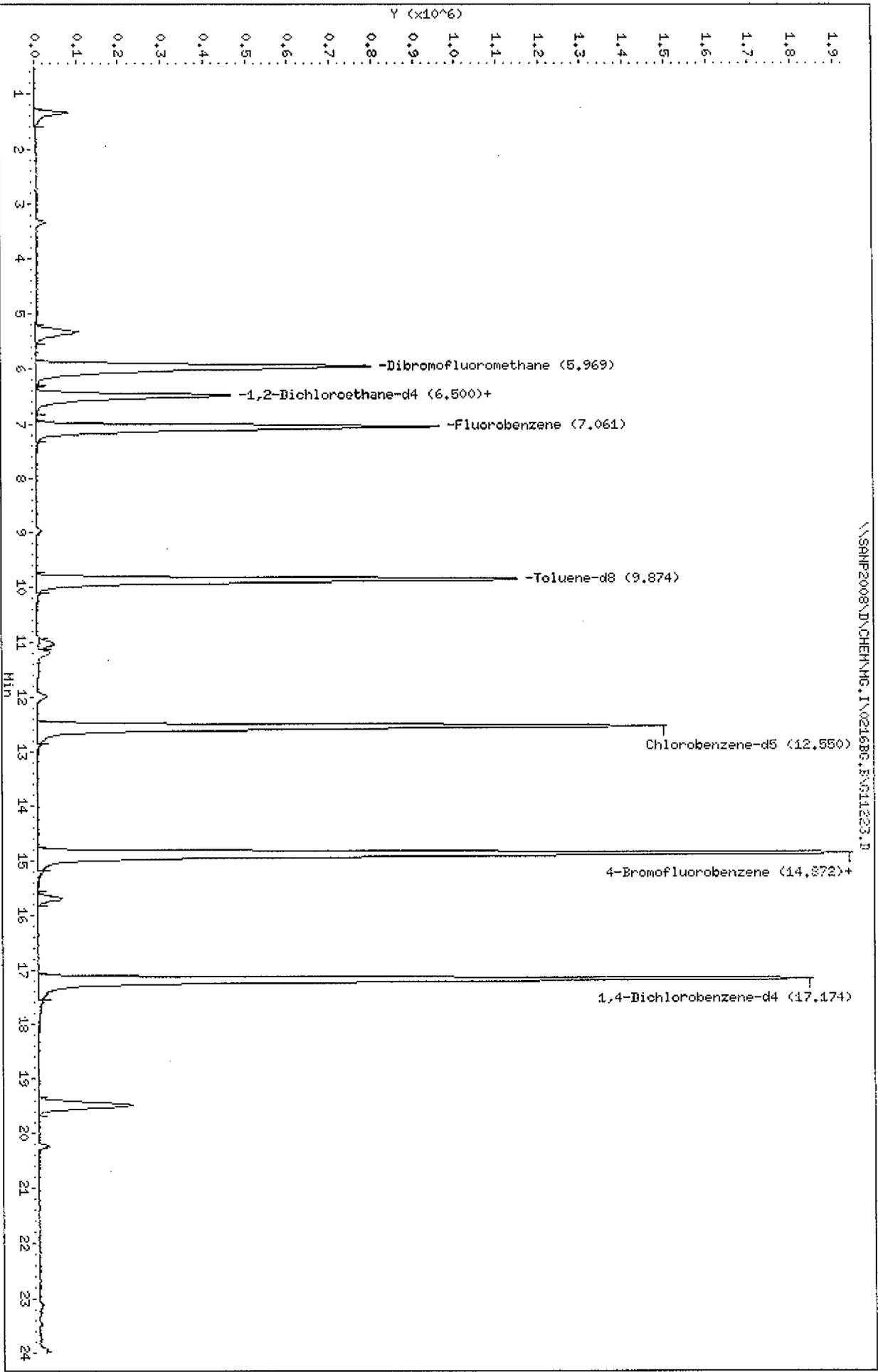
INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mg.i	Calibration Date: 16-FEB-2001
Lab File ID: G11223.D	Calibration Time: 16:47
Lab Smp Id: DV9F11AA	Client Smp ID: G11223
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: AD	
Method File: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m	
Misc Info: E1B160288-1,,5,,0,1-8260B.SUB	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	3241227	1620614	6482454	2709661	-16.40
56 Chlorobenzene-d5	3338029	1669015	6676058	2578389	-22.76
79 1,4-Dichlorobenze	2479562	1239781	4959124	1829033	-26.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.03	6.53	7.53	7.06	0.39
56 Chlorobenzene-d5	12.54	12.04	13.04	12.55	0.06
79 1,4-Dichlorobenze	17.18	16.68	17.68	17.18	0.05

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Date : 16-FEB-2001 22:21

Client ID: G11223

Instrument: mg.i

Sample Info: DV9F11AA,,2,,0,1,0,8260BGS,M,G11223

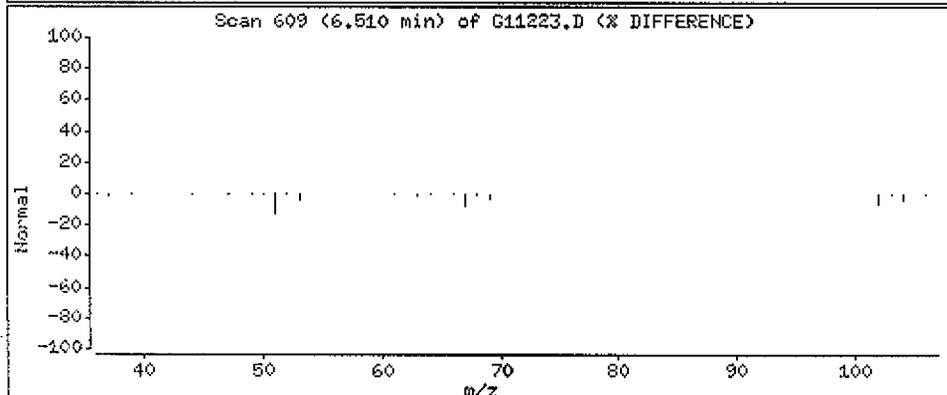
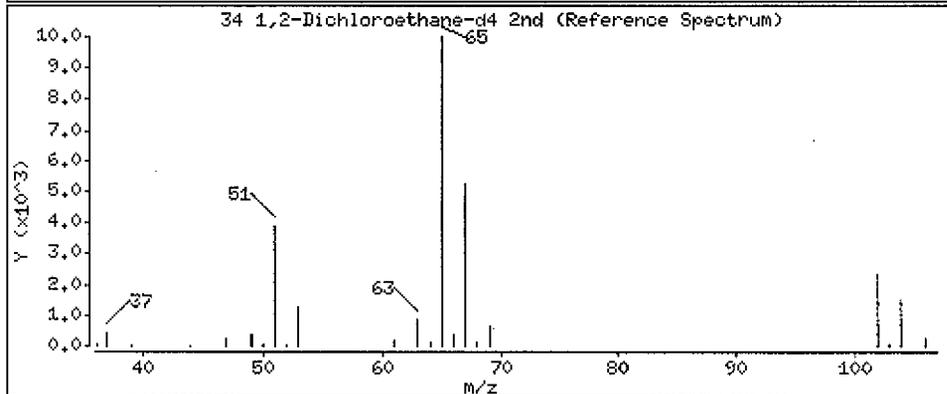
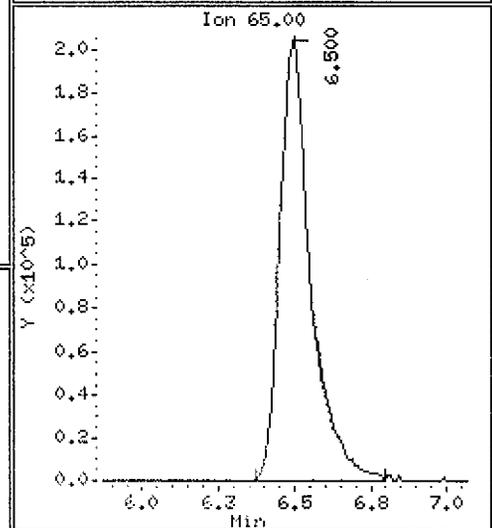
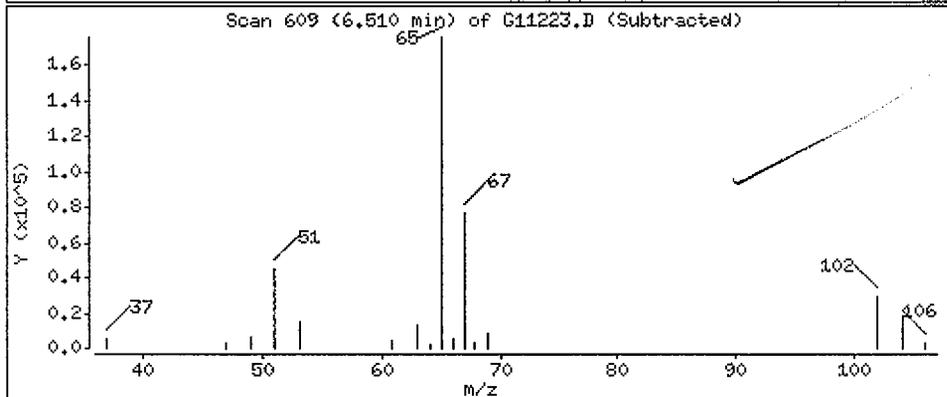
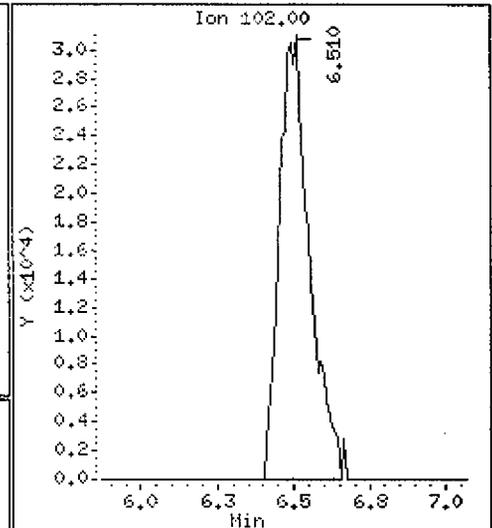
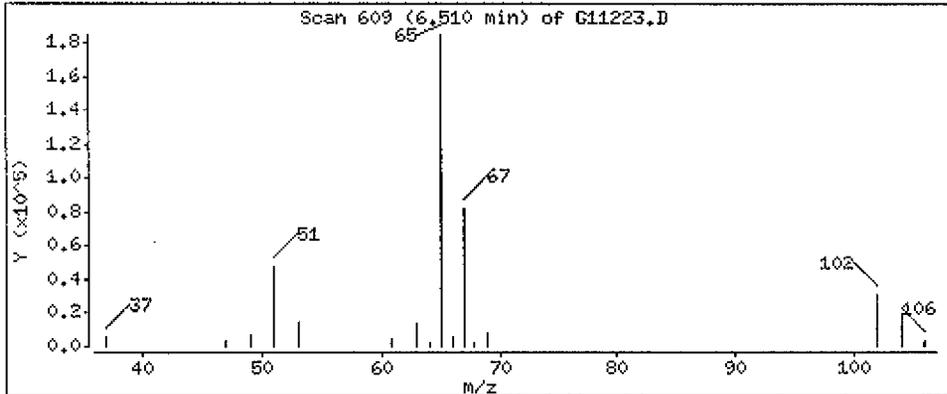
Operator: AD

Column phase: J&W DB-624

Column diameter: 0.53

34 1,2-Dichloroethane-d4 2nd

Concentration: 47.16 ug/Kg



Date : 16-FEB-2001 22:21

Client ID: G11223

Instrument: mg.i

Sample Info: DV9F11AA,,2,,0,1,0,8260BGS,H,G11223

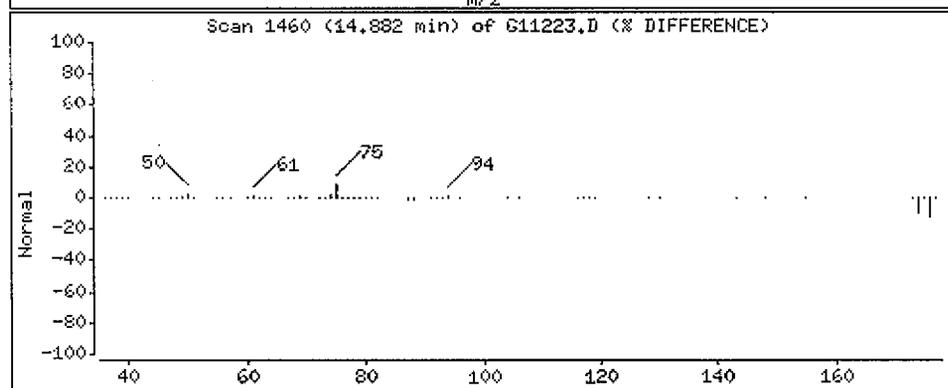
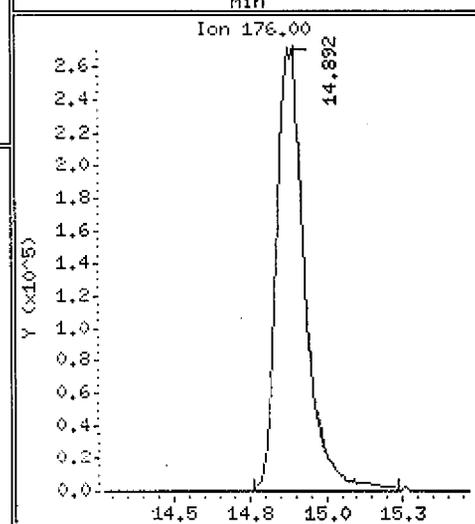
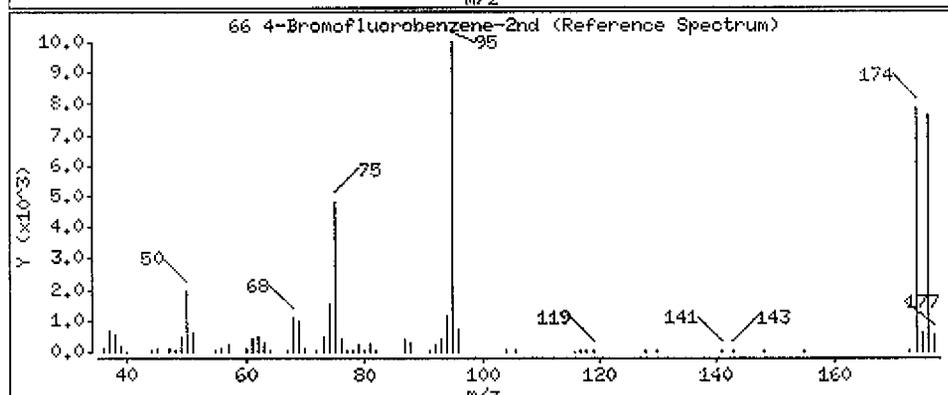
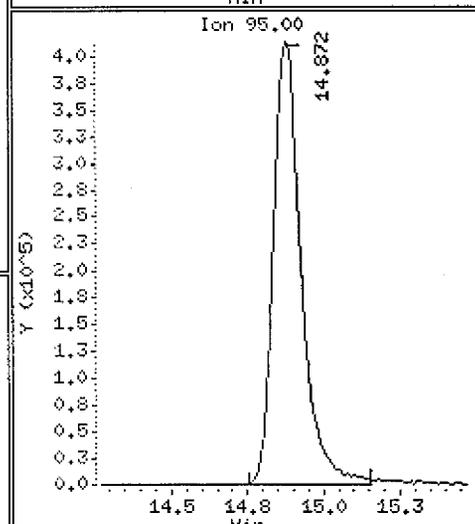
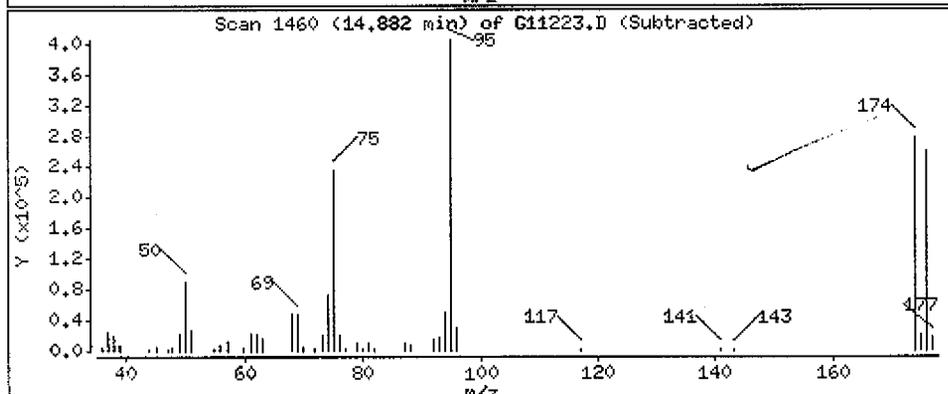
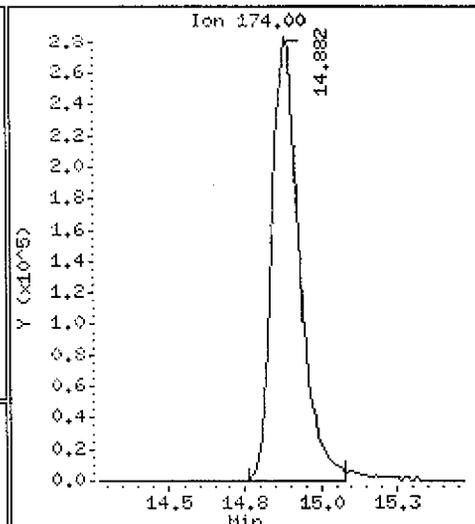
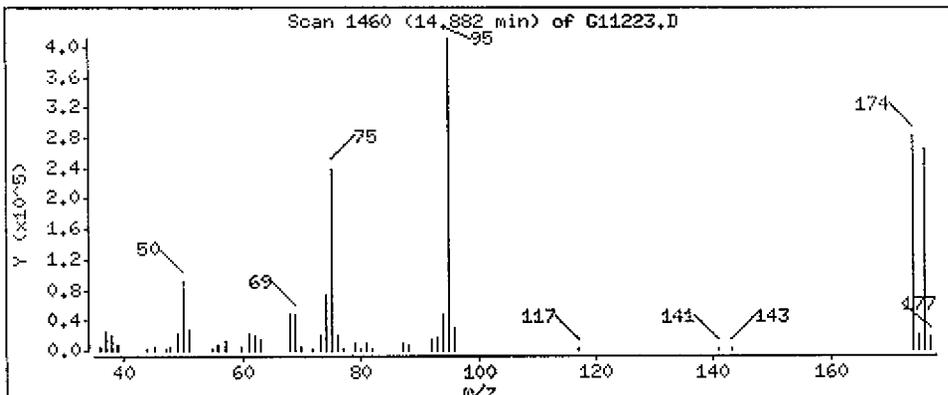
Operator: AD

Column phase: J&W DB-624

Column diameter: 0.53

66 4-Bromofluorobenzene-2nd

Concentration: 51.89 ug/Kg



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\SANP2008\D\CHEM\MG.I\0216BG.B\G11219.D
 Lab Smp Id: DV9F91AD Client Smp ID: G11219
 Inj Date : 16-FEB-2001 20:00
 Operator : AD Inst ID: mg.i
 Smp Info : DV9F91AD,,2,,0,1,0,8260BGS.M,G11219
 Misc Info : E1B160288-2,,5,,0,1-8260B.SUB
 Comment :
 Method : \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m
 Meth Date : 16-Feb-2001 17:12 beckmang Quant Type: ISTD
 Cal Date : 29-JAN-2001 21:04 Cal File: GS2685.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260B.SUB
 Target Version: 4.00
 Processing Host: SANP2008

Concentration Formula: Amt * DF * Uf * (Vp/(Ws * (100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/Kg)	(ug/Kg)
\$ 29 Dibromofluoromethane	111		5.962	5.941	(0.844)	2058975	49.0542	49.05	
\$ 33 1,2-Dichloroethane-d4	65		6.483	6.472	(0.918)	1598882	44.7085	44.71	
34 1,2-Dichloroethane-d4 2nd	102		6.493	6.472	(0.919)	256561	54.4375	54.44	
* 36 1,2-Dichloroethane	62		6.611	6.600	(0.936)	39671	1.00611	1.01	(aQ)
* 38 Fluorobenzene	96		7.064	7.033	(1.000)	2807866	50.0000		
\$ 47 Toluene-d8	98		9.868	9.857	(0.786)	2877459	46.6360	46.64	
* 56 Chlorobenzene-d5	117		12.553	12.542	(1.000)	2816259	50.0000		
\$ 67 4-Bromofluorobenzene	95		14.885	14.874	(0.866)	3149771	54.8983	54.90	
66 4-Bromofluorobenzene-2nd	174		14.885	14.874	(0.866)	2120029	54.0307	54.03	
* 79 1,4-Dichlorobenzene-d4	152		17.187	17.176	(1.000)	2087266	50.0000		(Q)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

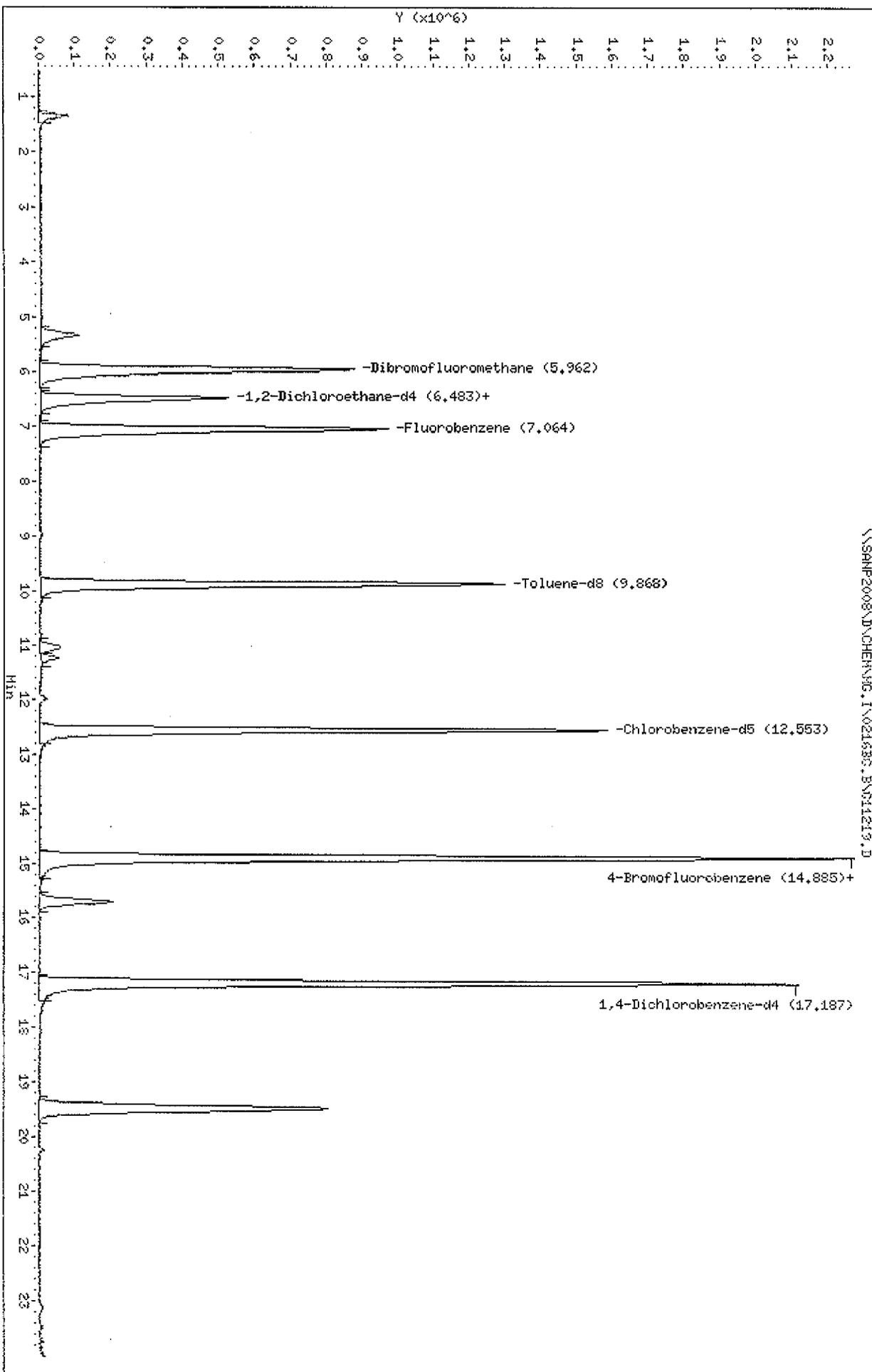
Instrument ID: mg.i	Calibration Date: 16-FEB-2001
Lab File ID: G11219.D	Calibration Time: 16:47
Lab Smp Id: DV9F91AD	Client Smp ID: G11219
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: AD	
Method File: \\SANP2008\D\CHEM\MG.I\0216BG.B\8260BGS.m	
Misc Info: E1B160288-2,,5,,0,1-8260B.SUB	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	3241227	1620614	6482454	2807866	-13.37
56 Chlorobenzene-d5	3338029	1669015	6676058	2816259	-15.63
79 1,4-Dichlorobenze	2479562	1239781	4959124	2087266	-15.82

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 Fluorobenzene	7.03	6.53	7.53	7.06	0.44
56 Chlorobenzene-d5	12.54	12.04	13.04	12.55	0.09
79 1,4-Dichlorobenze	17.18	16.68	17.68	17.19	0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

\\SAMP2008\DV\CHEM\MC.I\021630.B\G11219.D



Date : 16-FEB-2001 20:00

Client ID: G11219

Instrument: mg.i

Sample Info: DV9F91AD,,2,,0,1,0,8260BGS,M,G11219

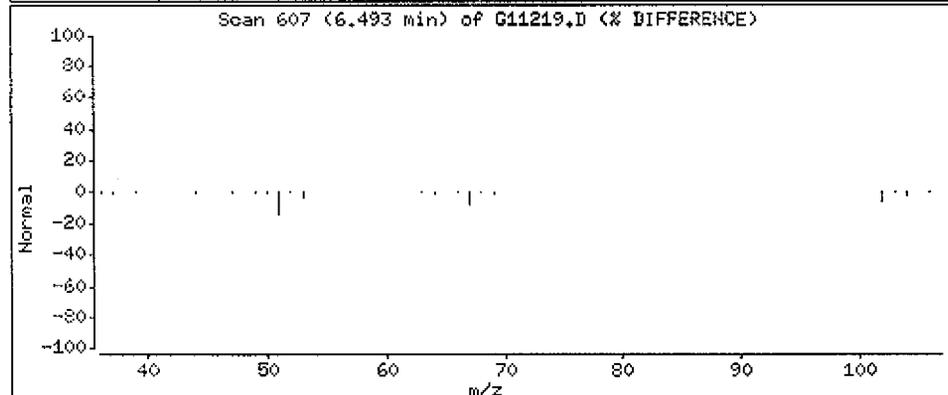
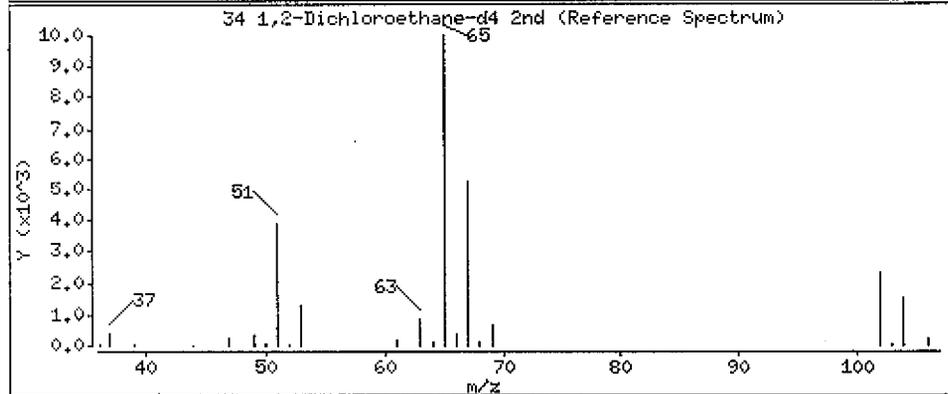
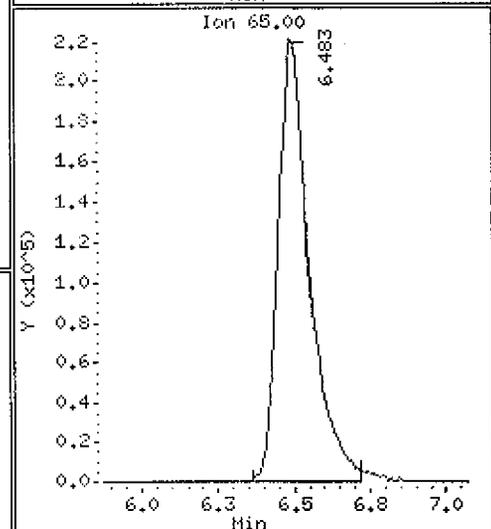
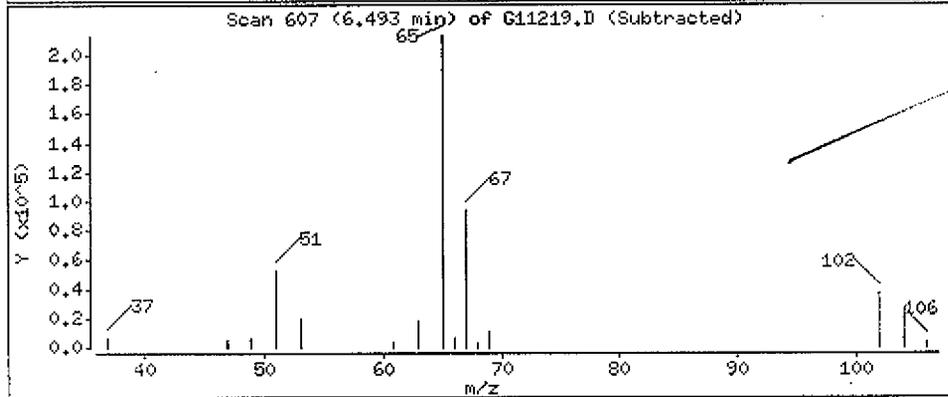
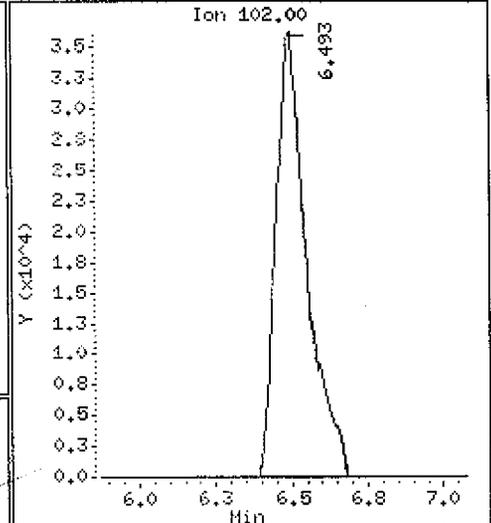
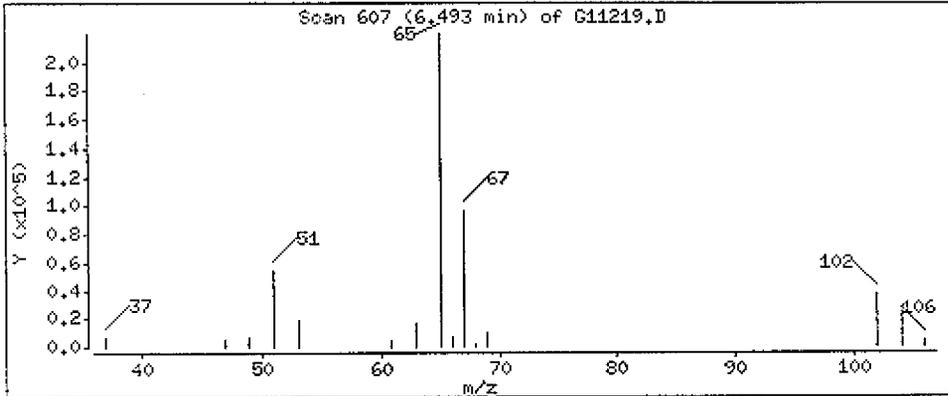
Operator: AD

Column phase: J&W DB-624

Column diameter: 0.53

34 1,2-Dichloroethane-d4 2nd

Concentration: 54.44 ug/Kg



Date : 16-FEB-2001 20:00

Client ID: G11219

Instrument: mg.i

Sample Info: DV9F91AD,,2,,0,1,0,8260BCS,N,G11219

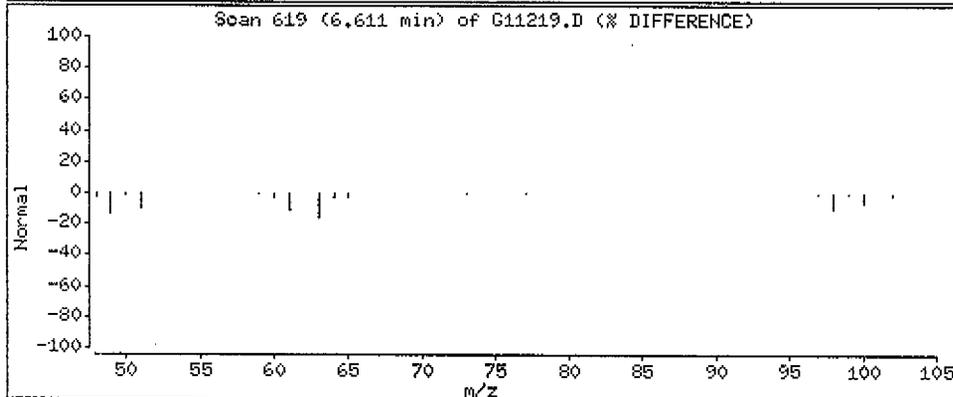
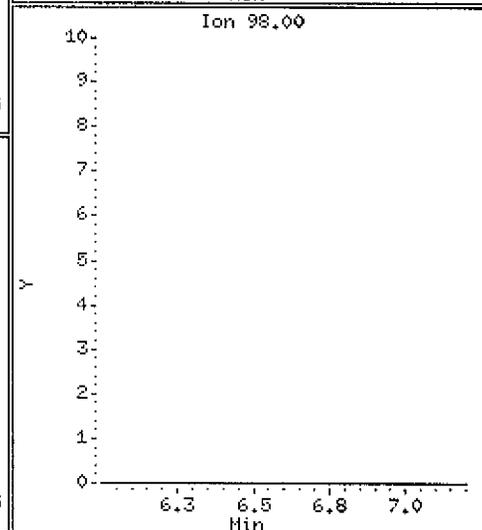
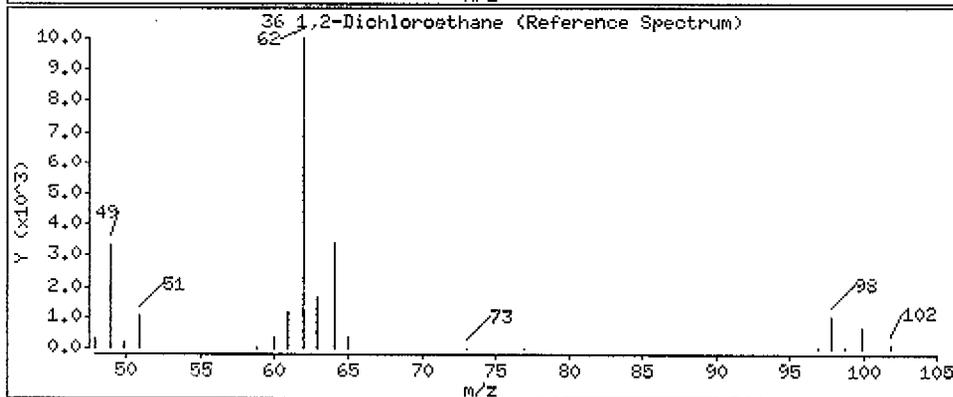
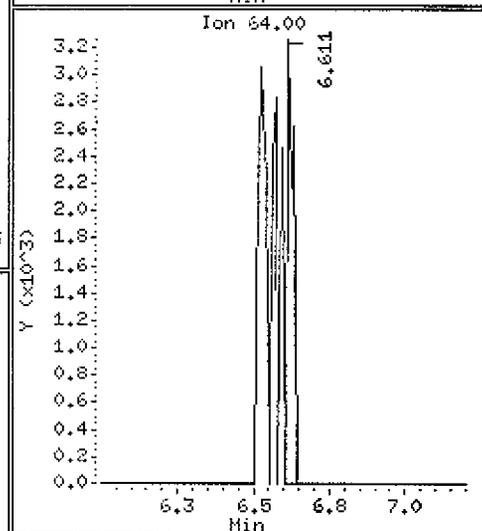
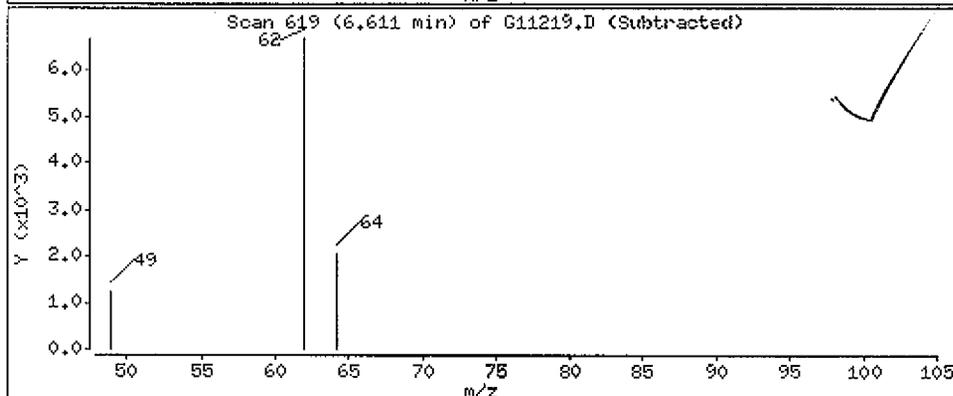
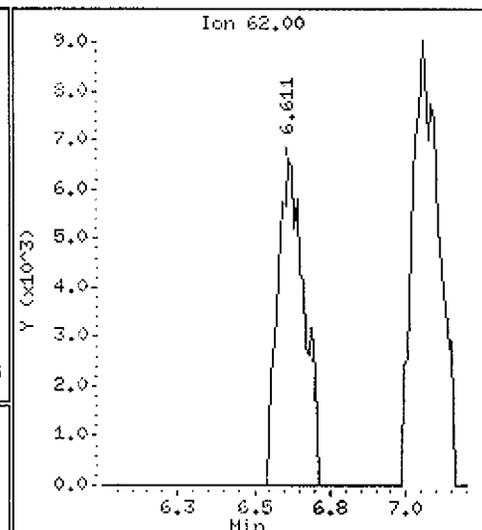
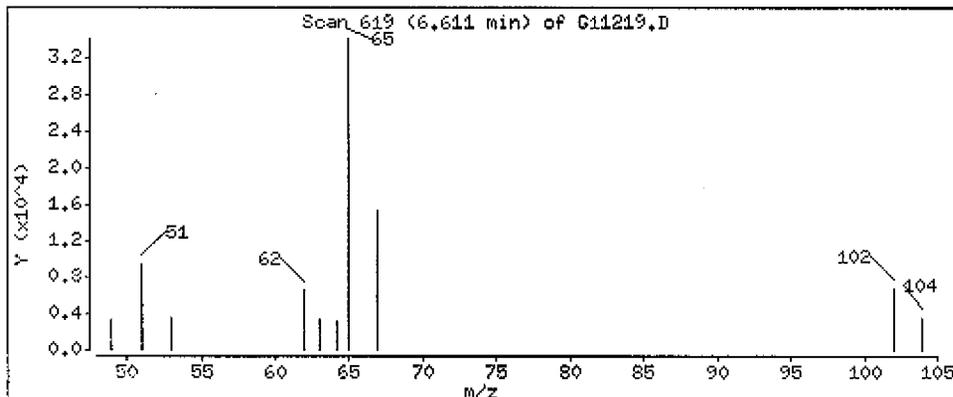
Operator: AD

Column phase: J&W DB-624

Column diameter: 0.53

36 1,2-Dichloroethane

Concentration: 1.01 ug/Kg



Date : 16-FEB-2001 20:00

Client ID: G11219

Instrument: mg.i

Sample Info: DV9F91AD,,2,,0,1,0,8260BGS,H,G11219

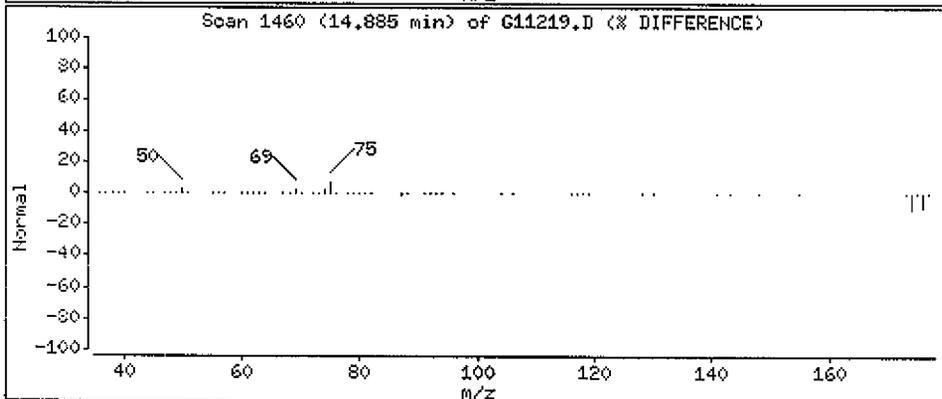
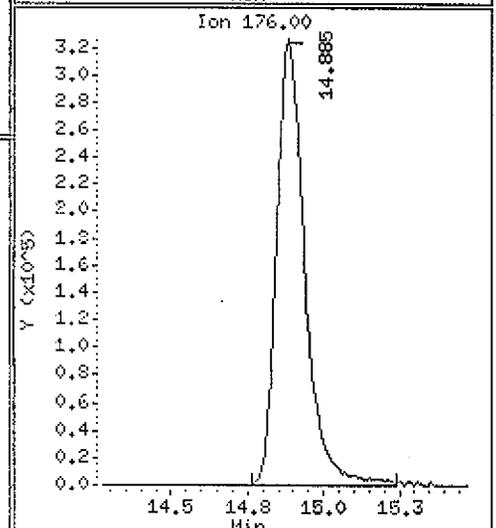
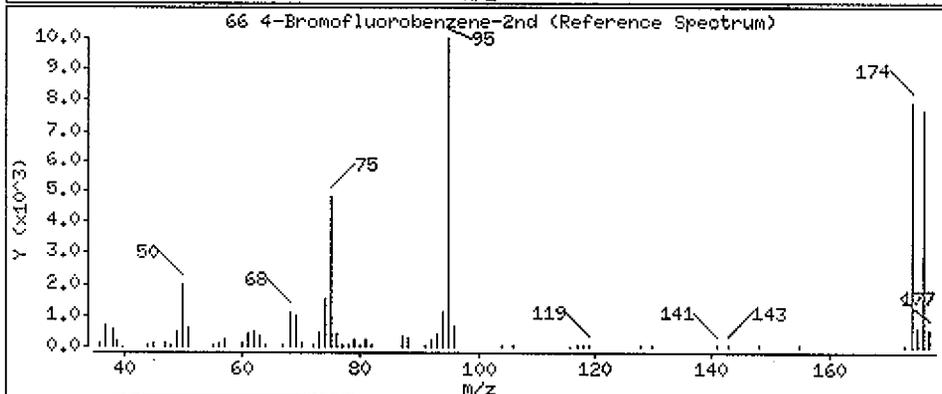
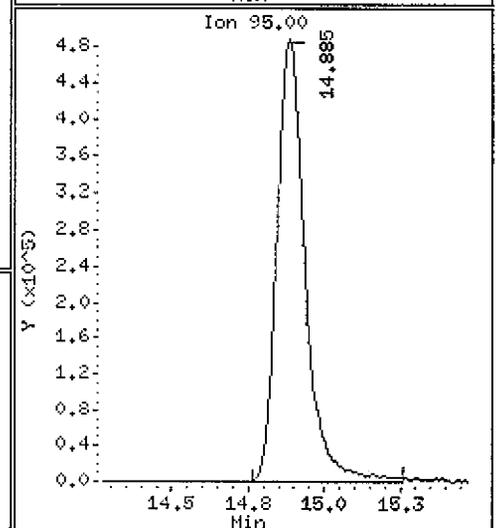
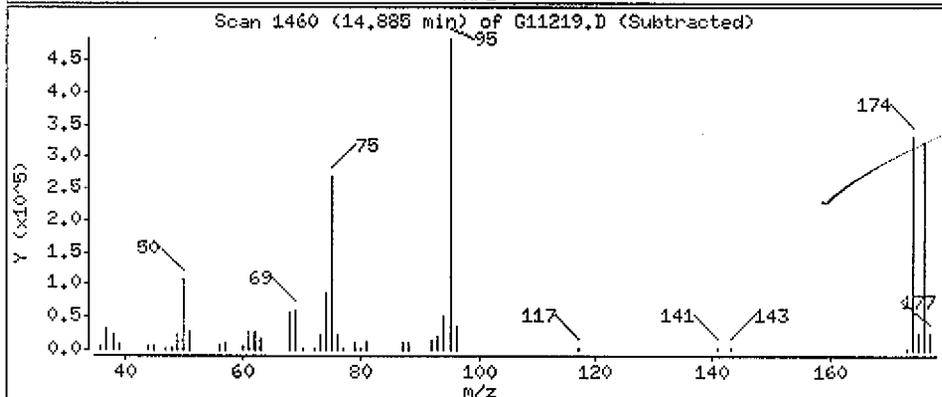
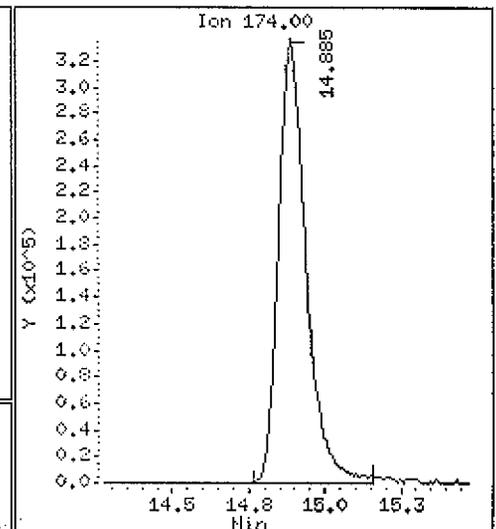
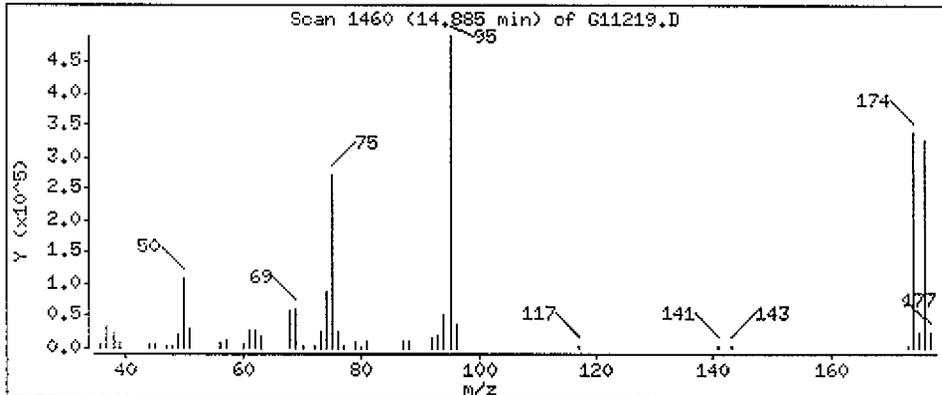
Operator: AD

Column phase: J&W DB-624

Column diameter: 0,53

66 4-Bromofluorobenzene-2nd

Concentration: 54,03 ug/Kg



TVPH

LEVEL III

C6 TO C8

TVPH

SAMPLE AND QC DATA

Date(s) Analyzed: 2/19/01

Instrument ID: GC15 GC16 GC13

Batch #: 1057278

Samples: E13160288-1,2

Turbochrom Sequence File : C:\TC4\GC16AB\219C6-8.SEQ
 Created by : LY on : 2/19/01 09:14 AM
 Edited by : DL on : 2/20/01 01:30 PM
 Description : *****STANDARD ID*****
 ICAL/CCV STD: TVPH # S-GCV-001-12
 QC Gasoline (Low level) S-GCV-001-19
 Surrogate TFT: S-CGV-001-10

Number of Times Edited : 16

Sequence File Header Information:

Number of Rows : 194
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Abend	Norm. Factor
1	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
2	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
3	Sample	LCS GAS	LCS GAS		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
4	Sample	MB S	MB S		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
5	Sample	B160288-1	288-1	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
6	Sample	B160288-2	288-2	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
7	Sample	B140272-3	272-9	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
8	Sample	B140272-18	272-18	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
9	Sample	B140272-20	272-20	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
10	Sample	B150298-9	298-9	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
11	Sample	n/a B150298-8 GMS	298-8 GMS	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
12	Sample	n/a B150298-8 GMSD	298-8GMSD	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
13	Sample	B150298-26	298-26	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
14	Sample	B150298-28	298-28	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
15	Sample	B150298-28 GMS	298-28 GMS	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
16	Sample	B150298-28 GMSD	298-28GMSD	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
17	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
18	Sample	MB S	MB S		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
19	Sample	B150298-27	298-27	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
20	Sample	B130297-32	297-32	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
21	Sample	B160304-2	304-2	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
22	Sample	B160304-3	304-3	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
23	Sample	B160304-4	304-4	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
24	Sample	B160304-5	304-5	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
25	Sample	B160304-6	304-6	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
26	Sample	B160304-7	304-7	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
27	Sample	B160304-8	304-8	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
28	Sample	B160304-9	304-9	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
29	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
30	Sample	LCS GAS	LCS GAS		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
31	Sample	MB S	MB S		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
32	Sample	B160304-10	304-10	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
33	Sample	B160304-11	304-11	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
34	Sample	B160304-12	304-12	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
35	Sample	B160304-14	304-14	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
36	Sample	B160304-15	304-15	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
37	Sample	B160304-16	304-16	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
38	Sample	B160304-17	304-17	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
39	Sample	B160304-18	304-18	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
40	Sample	B160304-19	304-19	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
41	Sample	B160304-20	304-20	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
42	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
43	Sample	MB S	MB S		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
44	Sample	B160304-21	304-21	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
45	Sample	B160304-22	304-22	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
46	Sample	B160304-23	304-23	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
47	Sample	B160304-24	304-24	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
48	Sample	B160304-25	304-25	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
49	Sample	B160304-26	304-26	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
50	Sample	B160304-27	304-27	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
51	Sample	B160304-28	304-28	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
52	Sample	B160304-29	304-29	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
53	Sample	B160304-30	304-30	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
54	Sample	B160304-22 GMS	304-22 GMS	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
55	Sample	B160304-22 GMS	304-22GMSD	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000

Software Version: 4.1<2F12>

Sample Name : GASCCV

Time : 2/20/01 01:35 PM

Sample Number: GASCCV

Study :

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 09:58 AM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A002.RAW

Result File : C:\TC4\GC16AB\219A002.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A002.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

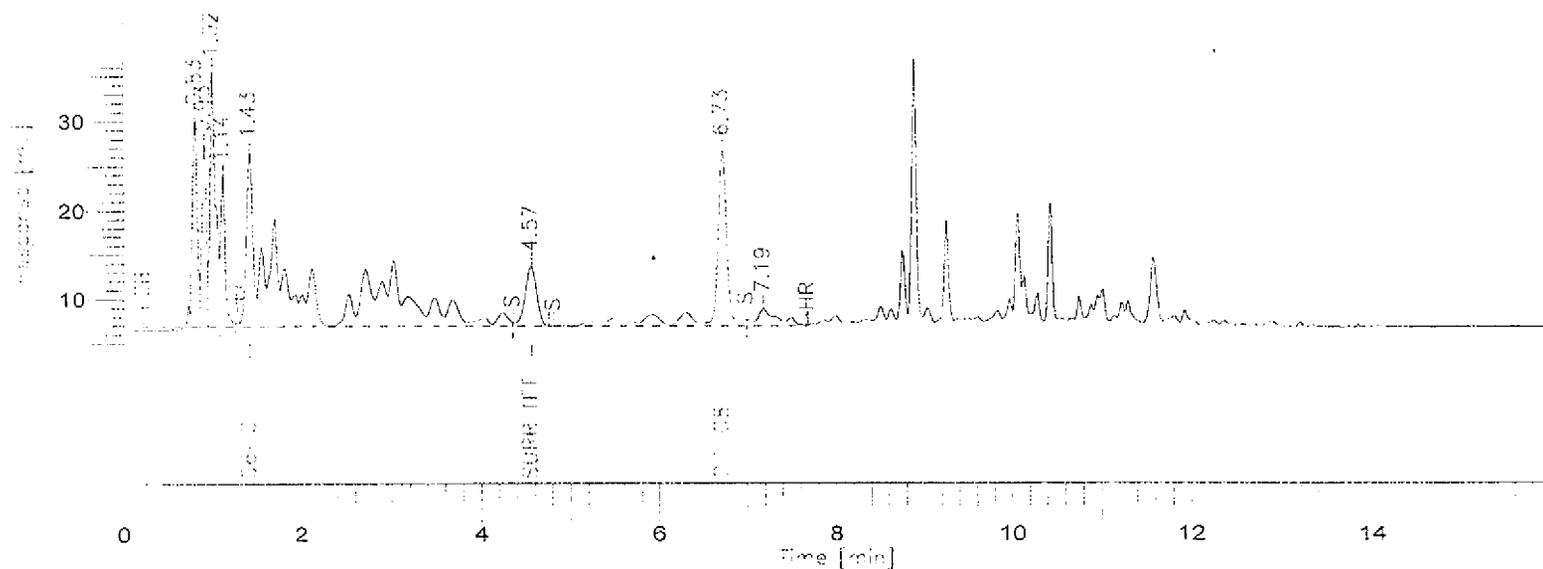
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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```

Time [min]	Component Name	Area [uV*sec]	STD Results (ppm)	STD Level (ppm)	STD % D
4.57	SURR TFT	60039	0.0354	0.0400	-11.4
6.72	GASOLINE RANGE	777111	1.0012	1.0000	0.1

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```

837150

Group Report For : GASOLINE RANGE

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```

Time [min]	Component Name	Area [uV*sec]	STD Results (ppm)	STD Level (ppm)	STD % D
1.43	C6-C7	584918	1.0129	1.0000	1.3
6.72	C7-C8	192193	0.9671	1.0000	-3.3

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-----
```

777111

```
=====
```

STL - LOS ANGELES

```
=====
```

Report stored in ASCII file: C:\TC4\GC16AB\219A002.TX0

Software Version: 4.1<2F12>

Sample Name : GASCCV

Time : 2/20/01 01:36 PM

Sample Number: GASCCV

Study :

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 05:05 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A017.RAW

Result File : C:\TC4\GC16AB\219A017.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A017.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

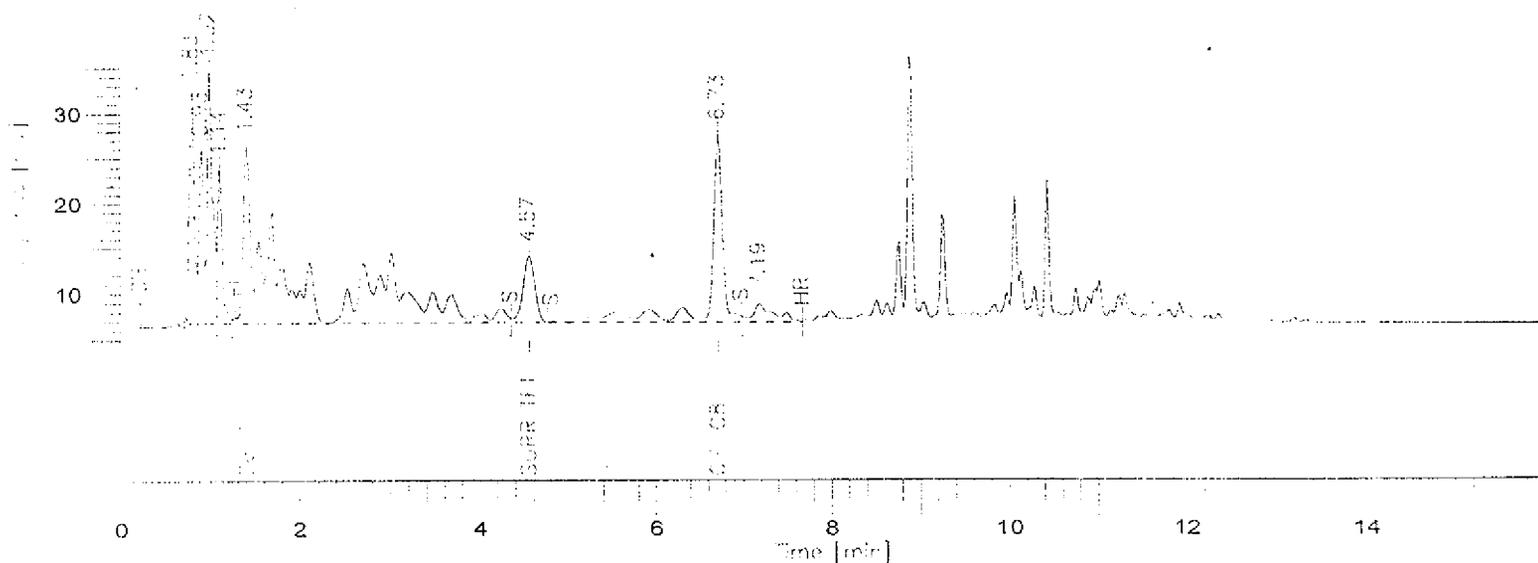
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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```

Time [min]	Component Name	Area [uV*sec]	STD Results (ppm)	STD Level (ppm)	STD % D
4.57	SURR TFT	64470	0.0380	0.0400	-5.1
6.73	GASOLINE RANGE	788136	1.0168	1.0000	1.7

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-----  
852606
```

Group Report For : GASOLINE RANGE

```
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```

Time [min]	Component Name	Area [uV*sec]	STD Results (ppm)	STD Level (ppm)	STD % D
1.43	C6-C7	590375	1.0234	1.0000	2.3
6.73	C7-C8	197761	0.9979	1.0000	-0.2

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-----  
788136
```

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STL - LOS ANGELES

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```

Report stored in ASCII file: C:\TC4\GC16AB\219A017.TX0

Software Version: 4.1<2F12>

Sample Name : GASCCV

Time : 2/20/01 01:45 PM

Sample Number: GASCCV

Study :

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 10:47 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A029.RAW

Result File : C:\TC4\GC16AB\219A029.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A029.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

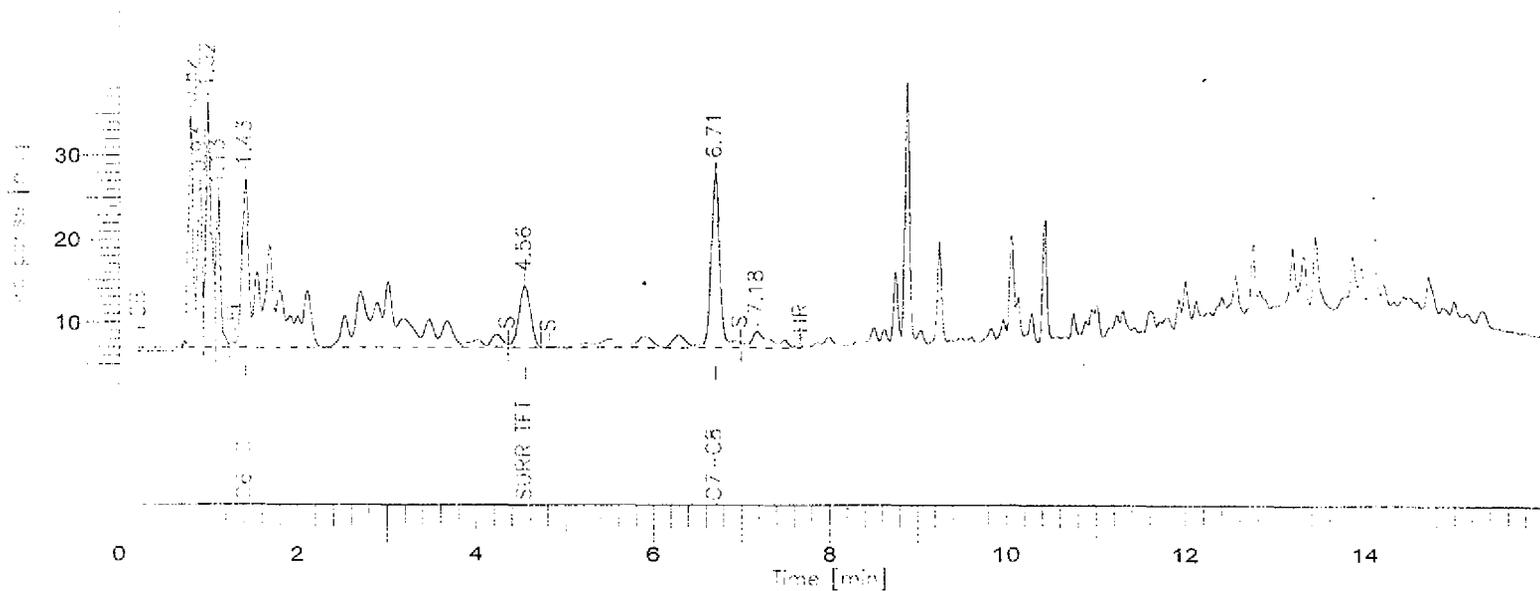
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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```

Time [min]	Component Name	Area [uV*sec]	STD Results (ppm)	STD Level (ppm)	STD % D
4.56	SURR TFT	64330	0.0379	0.0400	-5.3
6.71	GASOLINE RANGE	802130	1.0367	1.0000	3.7

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-----
```

866460

Group Report For : GASOLINE RANGE

```
=====
```

Time [min]	Component Name	Area [uV*sec]	STD Results (ppm)	STD Level (ppm)	STD % D
1.43	C6-C7	603545	1.0485	1.0000	4.9
6.71	C7-C8	198585	1.0025	1.0000	0.2

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-----
```

802130

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=====
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STL - LOS ANGELES

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=====
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Report stored in ASCII file: C:\TC4\GC16AB\219A029.TX0

PDE120
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 14:04:08

Lot/Sample: E1B200000-278B INTRA-LAB BLANK TICs.....: N Report Results: Y
WO#.....: DWDH6-1-AA Est. Results: Y Sig Fig Alg...: A
SAC.....: XX A 15 KJ 01 Dry Weight...: N Upload.....: Y
Method....: SOLID / Hydrocarbons, Volatile Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01 Prep Date.....: 2/19/01
Inject Time...: 10:55 Inject Vol: 5.0 Units: mL QC Batch.....: 1051278
Analyst.....: 001464 Jose Alcantara MS Run Number:
Dil Factor: 1.00 Instr File: 219A004 Prep Time.....: 0:00- 0:00
Instr ID: G16 Column: DB624 ID: .53 Init Wgt/Vol.: 1 Units: g
Sampling date.....: 2/15/01 Final Wgt/Vol: 5.00 Units: mL
Leach Date.....: 0/00/00 pH Values.: I) .0 1) .0 2) .0
Leach Batch.....: Extract Solv.: Amt... .0
Buffer Type.....: Exchange Solv: Amt... .0
Leach Weight.....: .0 Spike.....:
Leach Volume.....: 0 Units: Surrogate: TFT
Entered by.....:ALCANTAJ 1/02/20 12:17:52
Prep Comments.....:
Analysis Comments...:
Result Units.....:mg/kg Total Solids.: .00

SYN#	Analyte	* Exc SPK Code	Result	Limit	MDL	Data Qual	Report Qual
05134	C6-C8		ND	1	0.1		

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
03185	a,a,a-Trifluorotoluene (TFT)		0.2	0.1565	78.25		

Software Version: 4.1<2F12>

Sample Name : MB S

Time : 2/20/01 01:35 PM

Sample Number: MB S

Study :

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 10:55 AM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A004.RAW

Result File : C:\TC4\GC16AB\219A004.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A004.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

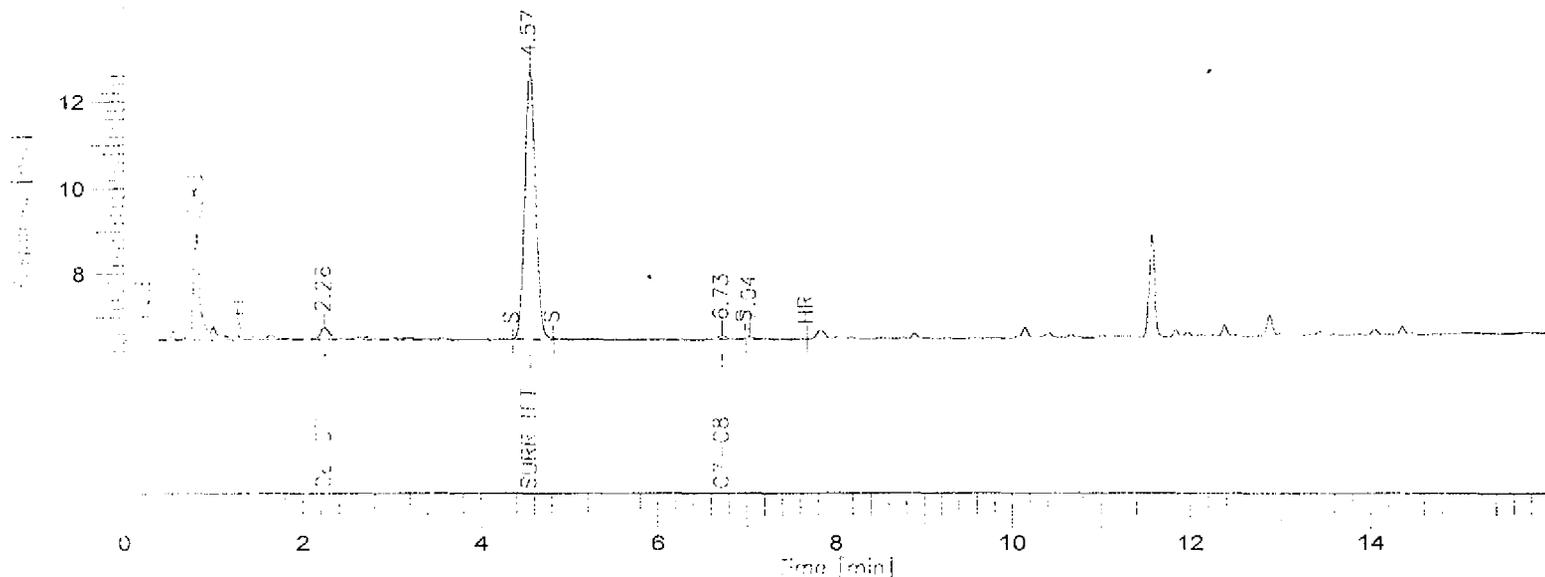
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time      Component      Area      Final      SURR  R.Limits  FN      Raw
[min]    Name             [uV*sec] Results (ppm) % REC   (ppm)                Amount (ppm)
-----
 2.26 GASOLINE RANGE      7296      -0.4632  -----  1.00      -0.0926
 4.57 SURR TFT           52745      0.1565   78.3    0.00      0.0313
-----
                          60041                                -0.0613

```

Group Report For : GASOLINE RANGE

```

Time      Component      Area      Final      SURR  R.Limits  FN      Raw
[min]    Name             [uV*sec] Results (ppm) % REC   (ppm)                Amount (ppm)
-----
 2.26 C6-C7              6390      -0.4629  -----  1.00      -0.0926
 6.73 C7-C8              906       -0.4640  -----  1.00      -0.0928
-----
                          7296                                -0.1854

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STL - LOS ANGELES
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Report stored in ASCII file: C:\TC4\GC16AB\219A004.TX0

PDE120S
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 14:04:08

Lot/Sample: E1B200000-278C INTRA-LAB CHECK TICs.....: N Report Results: Y
WO#.....: DWDH6-1-AC Est. Results: Sig Fig Alg...: A
SAC.....: XX A 15 KJ 01 Dry Weight...: Upload.....: Y
Method....: SOLID / Hydrocarbons, Volatile Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
Inject Time..: 10:26 Inject Vol: 5.0 Units: mL
Analyst.....: 001464 Jose Alcantara
Dil Factor: 1.00 Instr File: 219A003
Instr ID: G16 Column: DB624 ID: .53
Sampling date.....: 2/15/01
Leach Date.....: 0/00/00
Leach Batch.....:
Buffer Type.....:
Leach Weight.....: .0
Leach Volume.....: 0 Units:
Entered by.....:ALCANTAJ 1/02/20 11:54:49
Prep Comments.....:
Analysis Comments...:
Result Units.....:mg/kg

Prep Date.....: 2/19/01
QC Batch.....: 1051278
MS Run Number:
Prep Time.....: 0:00- 0:00
Init Wgt/Vol.: 1 Units: g
Final Wgt/Vol.: 5.00 Units: mL
pH Values.: I) .0 1) .0 2) .0
Extract Solv.: Amt...
Exchange Solv.: Amt...
Spike....: GASOLINE
Surrogate: TFT

Total Solids.: .00

SYN#	Analyte	* Exc SPK Code	Spike Amount	Measured Amount	%REC	%RPD	Data Qual	Report Qual
04273	Gasoline Range Organics	NA		NA	0	0		
04863	Gasoline Range Organics	NA		NA	0	0		
02909	TPH (as Gasoline)		5.0	4.9098	98.19	0		

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
03185	a,a,a-Trifluorotoluene (TFT)		0.2	0.2112	105.6		

Software Version: 4.1<2F12>

Sample Name : LCS GAS

Time : 2/20/01 01:35 PM

Sample Number: LCS GAS

Study :

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 10:26 AM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A003.RAW

Result File : C:\TC4\GC16AB\219A003.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A003.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

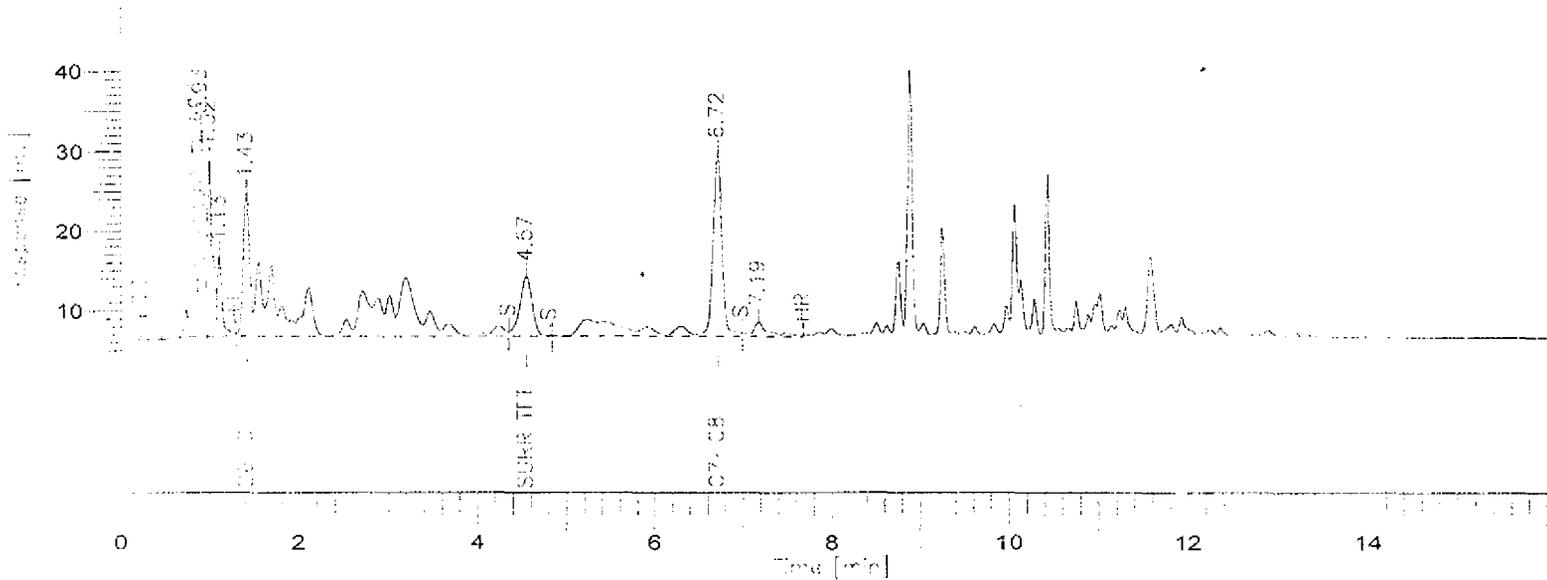
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	QC Spike (ppm)	QC % REC	FN	Raw Amount (ppm)
4.57	SURR TFT	71873	0.2112	0.0400	105.6		0.0422
6.72	GASOLINE RANGE	763588	4.9098	1.0000	98.2		0.9820

							835461

							1.0242

Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	QC Spike (ppm)	QC % REC	FN	Raw Amount (ppm)
1.43	C6-C7	515671	4.4031	1.0000	88.1		0.8806
6.72	C7-C8	247917	6.3792	1.0000	127.6		1.2758

							763588

							2.1564

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STL - LOS ANGELES

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Report stored in ASCII file: C:\TC4\GC16AB\219A003.TX0

PDE120S
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 14:09:08

Lot/Sample: E1B150298-028S DP1408_SSF0150A TICs.....: N Report Results: Y
WO#.....: DV7RD-1-AE Est. Results: Sig Fig Alg...: A
SAC.....: XX A 15 KJ 01 Dry Weight...: Upload.....: Y
Method....: SOLID / Hydrocarbons, Volatile Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
Inject Time...: 16:08 Inject Vol: 5.0 Units: mL
Analyst.....: 001464 Jose Alcantara
Dil Factor: 1.00 Instr File: 219A015
Instr ID: G16 Column: DB624 ID: .53
Sampling date.....: 2/15/01
Leach Date.....: 0/00/00
Leach Batch.....:
Buffer Type.....:
Leach Weight.....: .0
Leach Volume.....: 0 Units:
Entered by.....:ALCANTAJ 1/02/20 11:54:50
Prep Comments.....:
Analysis Comments...:
Result Units.....:mg/kg

Prep Date.....: 2/19/01
QC Batch.....: 1051278
MS Run Number: 1051151
Prep Time.....: 0:00- 0:00
Init Wgt/Vol.: 1 Units: g
Final Wgt/Vol: 5.00 Units: mL
pH Values.: I) .0 1) .0 2) .0
Extract Solv.: Amt...:
Exchange Solv: Amt...:
Spike....: GASOLINE
Surrogate: TFT

Total Solids.: .00

SYN#	Analyte	* Exc SPK Code	Spike Amount	Measured Amount	%REC	%RPD	Data Qual	Report Qual
04273	Gasoline Range Organics	NA		NA	0	0		
	Sample amount:							
04863	Gasoline Range Organics	NA		NA	0	0		
	Sample amount:							
02909	TPH (as Gasoline)		5.0	5.4309	108.6	2.41		
	Sample amount:							

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
03185	a,a,a-Trifluorotoluene (TFT)		0.2	0.2432	121.6		

Software Version: 4.1<2F12>

Sample Name : B150298-28 GMS

Time : 2/20/01 01:36 PM

Sample Number: 298-28 GMS

Study : LOW SOIL

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 04:08 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A015.RAW

Result File : C:\TC4\GC16AB\219A015.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A015.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

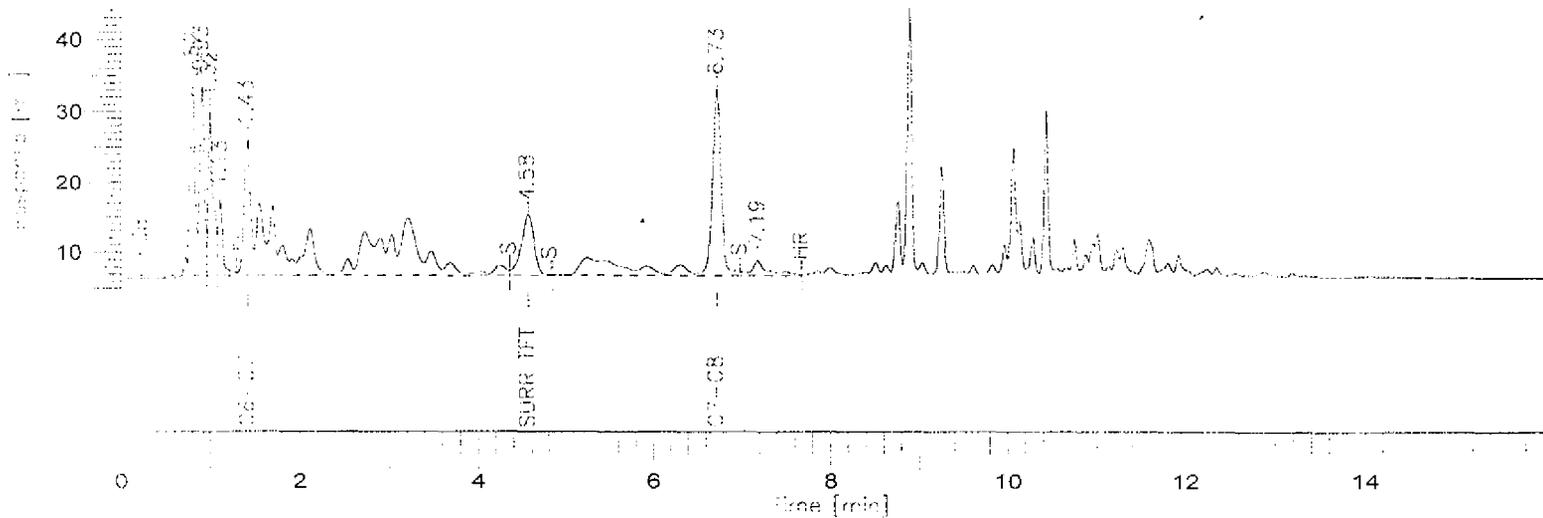
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	QC Spike (ppm)	QC % REC	FN	Raw Amount (ppm)
4.58	SURR TFT	82736	0.2432	0.0400	121.6		0.0486
6.73	GASOLINE RANGE	836931	5.4309	1.0000	108.6		1.0862

							919667

							1.1348

Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	QC Spike (ppm)	QC % REC	FN	Raw Amount (ppm)
1.43	C6-C7	562349	4.8491	1.0000	97.0		0.9698
6.73	C7-C8	274582	7.1179	1.0000	142.4		1.4236

							836931

							2.3934

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STL - LOS ANGELES

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Report stored in ASCII file: C:\TC4\GC16AB\219A015.TX0

PDE120S
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 14:09:09

Lot/Sample: E1B150298-028D DP1408_SSF0150A TICs.....: N Report Results: Y
WO#.....: DV7RD-1-AF Est. Results: Sig Fig Alg...: A
SAC.....: XX A 15 KJ 01 Dry Weight...: Upload.....: Y
Method....: SOLID / Hydrocarbons, Volatile Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
Inject Time..: 16:37 Inject Vol: 5.0 Units: mL
Analyst.....: 001464 Jose Alcantara
Dil Factor: 1.00 Instr File: 219A016
Instr ID: G16 Column: DB624 ID: .53
Sampling date.....: 2/15/01
Leach Date.....: 0/00/00
Leach Batch.....:
Buffer Type.....:
Leach Weight.....: .0
Leach Volume.....: 0 Units:
Entered by.....:ALCANTAJ 1/02/20 11:54:51
Prep Comments.....:
Analysis Comments...:
Result Units.....:mg/kg

Prep Date.....: 2/19/01
QC Batch.....: 1051278
MS Run Number: 1051151
Prep Time.....: 0:00- 0:00
Init Wgt/Vol.: 1 Units: g
Final Wgt/Vol: 5.00 Units: mL
pH Values.: I) .0 1) .0 2) .0
Extract Solv.: Amt...:
Exchange Solv: Amt...:
Spike.....: GASOLINE
Surrogate: TFT
Total Solids.: .00

SYN#	Analyte	* Exc SPK Code	Spike Amount	Measured Amount	%REC	%RPD	Data Qual	Report Qual
04273	Gasoline Range Organics	NA		NA	0	0		
	Sample amount:							
04863	Gasoline Range Organics	NA		NA	0	0		
	Sample amount:							
02909	TPH (as Gasoline)		5.0	5.3014	106.0	2.41		
	Sample amount:							

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
03185	a,a,a-Trifluorotoluene (TFT)		0.2	0.2277	113.85		

Software Version: 4.1<2F12>

Sample Name : B150298-28 GMSD

Time : 2/20/01 01:36 PM

Sample Number: 298-28GMSD

Study : LOW SOIL

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 04:37 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A016.RAW

Result File : C:\TC4\GC16AB\219A016.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A016.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

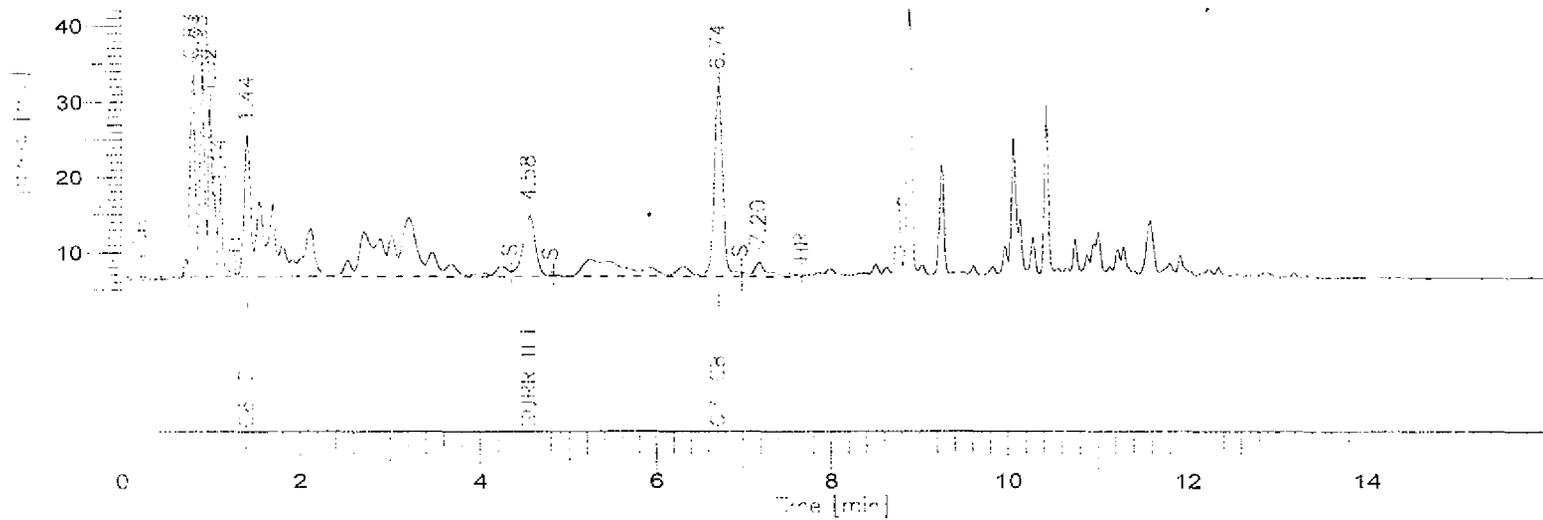
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time      Component      Area      Final      QC Spike   QC      FN      Raw
[min]    Name             [uV*sec] Results (ppm) (ppm)  % REC      Amount (ppm)
-----
4.58 SURR TFT             77505      0.2277    0.0400  113.9      0.0455
6.74 GASOLINE RANGE     818713      5.3014    1.0000  106.0      1.0603
-----
                        896218      1.1058
    
```

Group Report For : GASOLINE RANGE

```

Time      Component      Area      Final      QC Spike   QC      FN      Raw
[min]    Name             [uV*sec] Results (ppm) (ppm)  % REC      Amount (ppm)
-----
1.44 C6-C7             552345      4.7535    1.0000   95.1      0.9507
6.74 C7-C8             266368      6.8903    1.0000  137.8      1.3781
-----
                        818713      2.3288
    
```

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\GC16AB\219A016.TX0

PDE120
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 14:09:07

Lot/Sample: E1B150298-028 DP1408_SSF0150A TICs.....: N Report Results: Y
WO#.....: DV7RD-1-AC Est. Results: Y Sig Fig Alg...: A
SAC.....: XX A 15 KJ 01 Dry Weight...: N Upload.....: Y
Method....: SOLID / Hydrocarbons, Volatile Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01 Prep Date.....: 2/19/01
Inject Time...: 15:40 Inject Vol: 5.0 Units: mL QC Batch.....: 1051278
Analyst.....: 001464 Jose Alcantara MS Run Number: 1051151
Dil Factor: 1.00 Instr File: 219A014 Prep Time.....: 0:00- 0:00
Instr ID: G16 Column: DB624 ID: .53 Init Wgt/Vol.: 1 Units: g
Sampling date.....: 2/15/01 Final Wgt/Vol: 5.00 Units: mL
Leach Date.....: 0/00/00 pH Values.: I) .0 1) .0 2) .0
Leach Batch.....: Extract Solv.: Amt...: .0
Buffer Type.....: Exchange Solv: Amt...: .0
Leach Weight.....: .0 Spike.....:
Leach Volume.....: 0 Units: Surrogate: TFT
Entered by.....:ALCANTAJ 1/02/20 12:13:13
Prep Comments.....:
Analysis Comments...:
Result Units.....:mg/kg Total Solids.: .00

SYN#	Analyte	* Exc	SPK Code	Result	Limit	MDL	Data Qual	Report Qual
05134	C6-C8			ND	1	0.1		
04273	Gasoline Range Organics	*	NA	NA		0.1		
04863	Gasoline Range Organics	*	NA	NA		0.1		
02909	TPH (as Gasoline)	*		ND	1	0.1		

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
03185	a,a,a-Trifluorotoluene (TFT)		0.2	0.1777	88.85		

Software Version: 4.1<2F12>

Sample Name : B150298-28

Time : 2/20/01 01:36 PM

Sample Number: 298-28

Study : LOW SOIL

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 03:40 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A014.RAW

Result File : C:\TC4\GC16AB\219A014.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A014.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

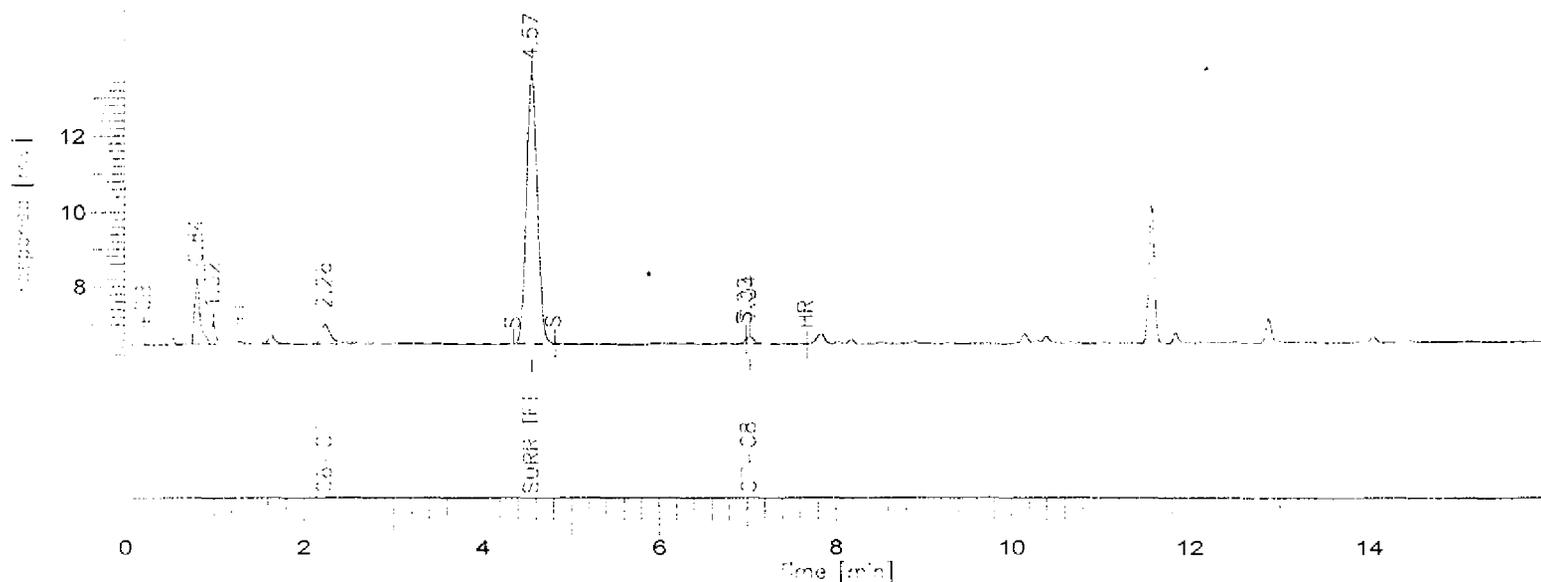
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
2.26	GASOLINE RANGE	7254	-0.4635	-----	1.00		-0.0927
4.57	SURR TFT	60246	0.1777	88.9	0.00		0.0355
		67500					-0.0572

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```

Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
2.26	C6-C7	5809	-0.4685	-----	1.00		-0.0937
7.04	C7-C8	1445	-0.4490	-----	1.00		-0.0898
		7254					-0.1835

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STL - LOS ANGELES

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Report stored in ASCII file: C:\TC4\GC16AB\219A014.TX0

Lot/Sample: E1B160288-001 SOURCE F_02_14_ TICs.....: N Report Results: Y
 WO#.....: DV9F1-1-AD Est. Results: Y Sig Fig Alg....: A
 SAC.....: XX A 15 KJ 01 Dry Weight...: N Upload.....: Y
 Method....: SOLID / Hydrocarbons, Volatile Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01 **Prep Date.....: 2/19/01**
 Inject Time...: 11:23 Inject Vol: 5.0 Units: mL **QC Batch.....: 1051278**
 Analyst.....: 001464 Jose Alcantara **MS Run Number: 1051151**
Dil Factor: 1.00 Instr File: 219A005 **Prep Time.....: 0:00- 0:00**
 Instr ID: G16 Column: DB624 ID: .53 **Init Wgt/Vol.: 1 Units: g**
 Sampling date.....: 2/14/01 **Final Wgt/Vol: 5.00 Units: mL**
 Leach Date.....: 0/00/00 **pH Values.: I) .0 1) .0 2) .0**
 Leach Batch.....: **Extract Solv.: Amt...: .0**
 Buffer Type.....: **Exchange Solv: Amt...: .0**
 Leach Weight.....: .0 **Spike.....:**
 Leach Volume.....: 0 **Units:** **Surrogate: TFT**
 Entered by.....:ALCANTAJ 1/02/20 12:17:02
 Prep Comments.....:
 Analysis Comments...:
 Result Units.....:mg/kg **Total Solids.: .00**

SYN#	Analyte	* Exc	SPK Code	Result	Limit	MDL	Data Qual	Report Qual
05134	C6-C8			ND	1	0.1		

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
03185	a,a,a-Trifluorotoluene (TFT)		0.2	0.1670	83.5		

Software Version: 4.1<2F12>

Sample Name : B160288-1

Time : 2/20/01 01:35 PM

Sample Number: 288-1

Study : LOW SOIL

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 11:23 AM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A005.RAW

Result File : C:\TC4\GC16AB\219A005.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A005.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

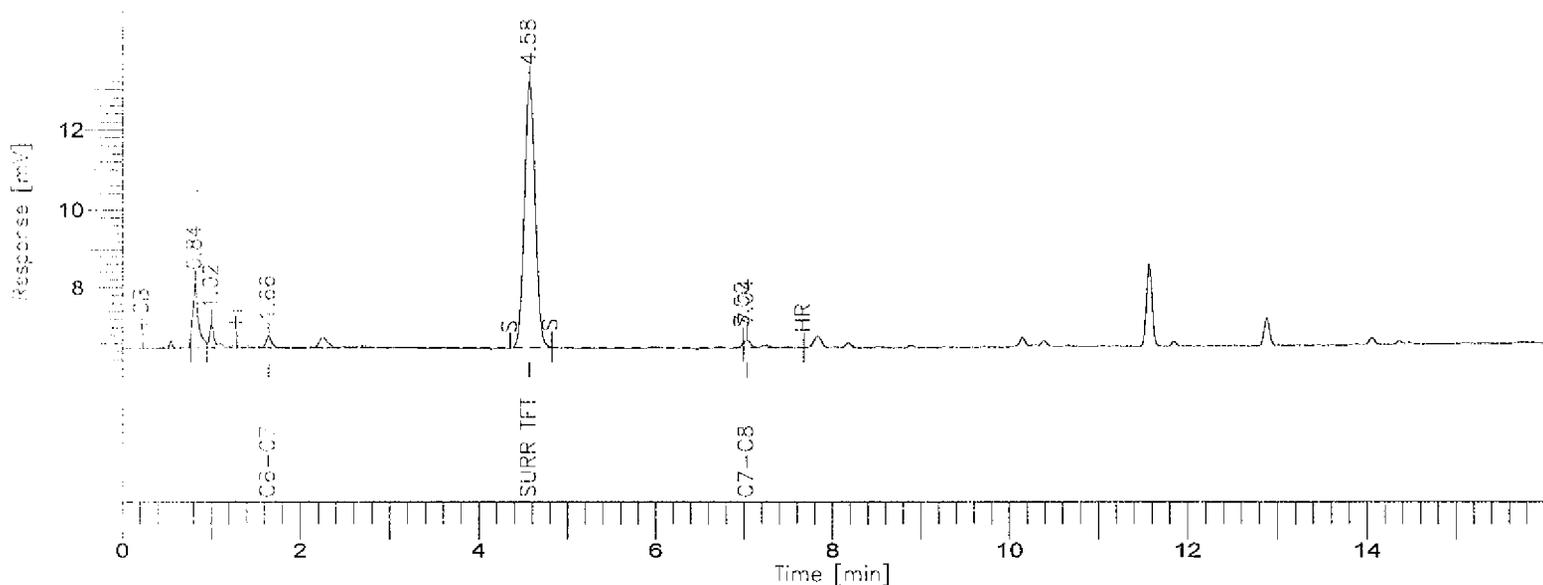
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
1.66	GASOLINE RANGE	6125	-0.4715	-----	1.00		-0.0943
4.58	SURR TFT	56469	0.1670	83.5	0.00		0.0334
		62594					-0.0609

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Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
1.66	C6-C7	4809	-0.4780	-----	1.00		-0.0956
7.04	C7-C8	1316	-0.4526	-----	1.00		-0.0905
		6125					-0.1861

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STL - LOS ANGELES

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Report stored in ASCII file: C:\TC4\GC16AB\219A005.TX0

PDE120
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 14:09:07

Lot/Sample: E1B160288-002 SOURCE G_02_14_ TICs.....: N Report Results: Y
WO#.....: DV9F9-1-AF Est. Results: Y Sig Fig Alg...: A
SAC.....: XX A 15 KJ 01 Dry Weight...: N Upload.....: Y
Method....: SOLID / Hydrocarbons, Volatile Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01 Prep Date.....: 2/19/01
Inject Time...: 11:52 Inject Vol: 5.0 Units: mL QC Batch.....: 1051278
Analyst.....: 001464 Jose Alcantara MS Run Number: 1051151
Dil Factor: 1.00 Instr File: 219A006 Prep Time.....: 0:00- 0:00
Instr ID: G16 Column: DB624 ID: .53 Init Wgt/Vol.: 1 Units: g
Sampling date.....: 2/14/01 Final Wgt/Vol: 5.00 Units: mL
Leach Date.....: 0/00/00 pH Values.: I) .0 1) .0 2) .0
Leach Batch.....: Extract Solv.: Amt...: .0
Buffer Type.....: Exchange Solv: Amt...: .0
Leach Weight.....: .0 Spike.....:
Leach Volume.....: 0 Units: Surrogate: TFT
Entered by.....:ALCANTAJ 1/02/20 12:17:07
Prep Comments.....:
Analysis Comments...:
Result Units.....:mg/kg Total Solids..: .00

<u>SYN#</u>	<u>Analyte</u>	* <u>SPK</u>	<u>Exc</u> <u>Code</u>	<u>Result</u>	<u>Limit</u>	<u>MDL</u>	<u>Data</u> <u>Qual</u>	<u>Report</u> <u>Qual</u>
05134	C6-C8			ND	1	0.1		

<u>SYN#</u>	<u>Surrogate</u>	<u>Recovery</u>	<u>Exc</u> <u>Code</u>	<u>Spike</u> <u>Amount</u>	<u>Measured</u> <u>Amount</u>	<u>Percent</u> <u>Recovery</u>	<u>Data</u> <u>Qual</u>	<u>Report</u> <u>Qual</u>
03185	a,a,a-Trifluorotoluene	(TFT)		0.2	0.1730	86.5		

Software Version: 4.1<2F12>

Sample Name : B160288-2

Time : 2/20/01 01:35 PM

Sample Number: 288-2

Study : LOW SOIL

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/19/01 11:52 AM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\219A006.RAW

Result File : C:\TC4\GC16AB\219A006.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\219A006.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8.mth

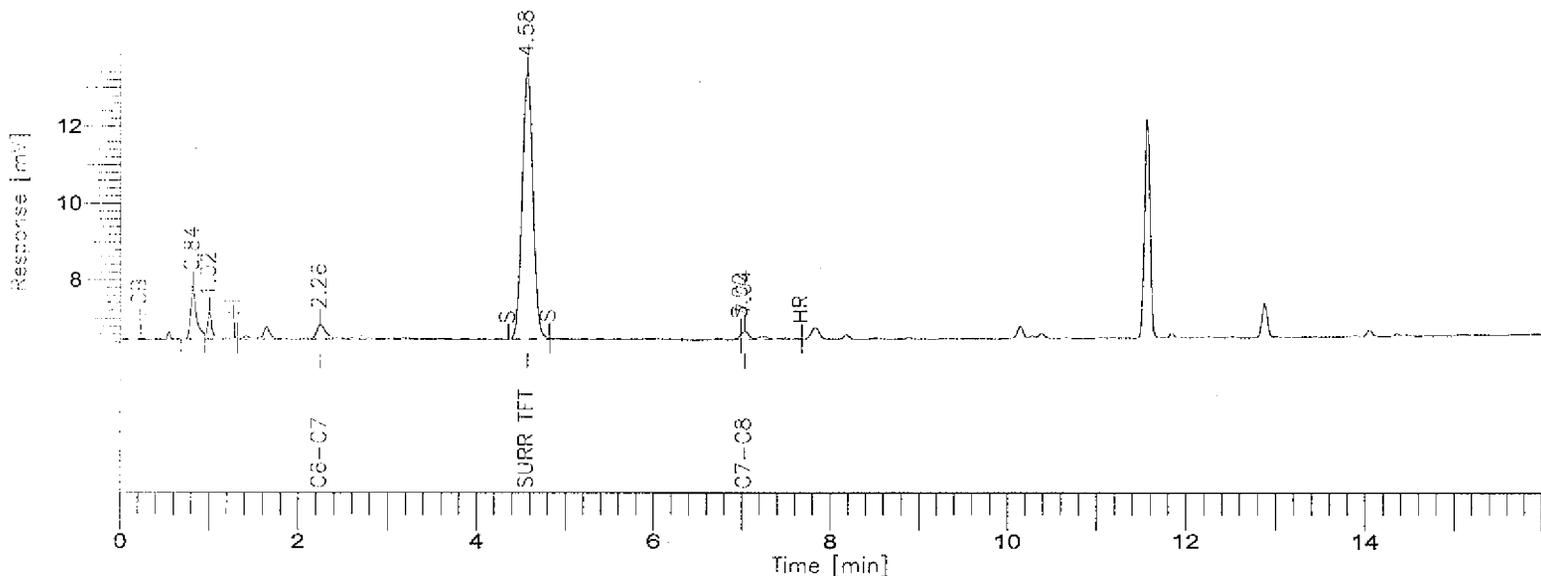
Sequence File : C:\TC4\GC16AB\219C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
2.26	GASOLINE RANGE	7922	-0.4588	-----	1.00		-0.0918
4.58	SURR TFT	58564	0.1730	86.5	0.00		0.0346

		66486					-0.0572

Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
2.26	C6-C7	6067	-0.4660	-----	1.00		-0.0932
7.04	C7-C8	1855	-0.4377	-----	1.00		-0.0875

		7922					-0.1807

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STL - LOS ANGELES

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Report stored in ASCII file: C:\TC4\GC16AB\219A006.TX0

INITIAL CALIBRATION DATA

Date Analyzed: 2-12-01

Instrument ID: G16A
C6 → C8

Turbochrom Method File : C:\TC4\GC16AB\METHODS\212C6-C8.MTH

Created by : ps on : 2/12/01 03:31 PM

Edited by : JKA on : 2/12/01 05:16 PM

Description :

Number of Times Edited : 4

Number of Times Calibrated : 330

Instrument Conditions :

Instrument Control Method:

Instrument name : GC16AB

Interface Parameters :

Delay Time : 0.00 min.

Run Time : 16.00 min.

Sampling Rate : 1.0000 pts/s

Interface Type : 900

Analog Voltage Input : 1000 mV

Data will be collected from channel A

Timed Events:

There are no timed events in the method

Real Time Plot Parameters :

Channel A -- Pages: 1 Offset: 0.000 mV Scale: 100.000 mV

Channel B -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV

Processing Parameters :

Bunch Factor : 1 points

Noise Threshold : 100 μ V

Area Threshold : 499.00 μ V

Peak Separation Criteria

Width Ratio : 0.200

Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria

Peak Height Ratio : 5.000

Adjusted Height Ratio : 4.000

Valley Height Ratio : 3.000

Baseline Timed Events :

Event #1 - +CB at 0.244

Event #2 - +I at 1.297

Event #3 - S at 1.315

Event #4 - S at 4.370

Event #5 - S at 4.829

Event #6 - S at 6.995

Event #7 - HR at 7.686

Event #8 - -P at 7.687

Annotated Replot Parameters :

No replot will be printed

Report Format files :

No report format files given

User Programs :

User Program #1 : C:\TC4\GC16AB\RST_READ.EXE
Command Line : \$RST
Entry Point : Post Analysis
Synchronize : NO

Global Information :

Default Sample Volume : 1.000 ml
Quantitation Units : ppm
Void Time : 0.000 min
Correct amounts during calibration : YES
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 5.313025e+06

Component Information :

C6-C7

Component Type : Single Peak Component
Retention Time : 2.895 min Search Window: 96.00 s, 47.00 %
Reference Component:
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
User Values:

Label :
Value 1: 0.100000
Value 2: 0.000000
Value 3: 1.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.0500	40615.00	1171.91	-----	-----	1
2	0.2000	82050.00	1840.71	-----	-----	1
3	0.5000	303011.00	9736.71	-----	-----	1
4	1.0000	634566.00	20277.30	-----	-----	1
5	2.0000	1237027.00	40024.74	-----	-----	1
6	5.0000	2610706.00	82748.35	-----	-----	1

Calibration Curve : y = (54842.222592) + (523305.333080)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.993162

SURR TFT

Component Type : Single Peak Component
Retention Time : 4.550 min Search Window: 1.00 s, 3.00 %
Reference Component:

Find peak closest to expected RT in window
 Calibrating Area versus Amount using a 2nd Order Fit
 Curve will ignore the origin
 Amounts will not be scaled prior to the regression
 Weighting factor for the regression: None
 User Values:

Label :
 Value 1: 0.000000
 Value 2: 0.040000
 Value 3: 0.040000
 Value 4: 0.000000
 Value 5: 2.000000
 Value 6: 0.000000
 Value 7: 108.018306

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.0100	18114.00	2086.08	-----	-----	1
2	0.0200	26691.00	3099.58	-----	-----	1
3	0.0300	46480.00	5344.95	-----	-----	1
4	0.0400	71665.00	8179.25	-----	-----	1
5	0.0600	104312.00	11674.26	-----	-----	1
6	0.0800	130814.00	13814.01	-----	-----	1

Calibration Curve : $y = (-5893.777183) + (1965048.056338)x + (-2936374.647887)x^2 + (0.000000)x^3$
 R-squared : 0.990690

C7-C8

Component Type : Single Peak Component
 Retention Time : 6.707 min Search Window: 99.00 s, 37.00 %
 Reference Component:

Find largest peak in window
 Calibrating Area versus Amount using a 1st Order Fit
 Curve will ignore the origin
 Amounts will not be scaled prior to the regression
 Weighting factor for the regression: None

User Values:
 Label :
 Value 1: 0.100000
 Value 2: 0.000000
 Value 3: 1.000000
 Value 4: 0.000000
 Value 5: 0.000000
 Value 6: 0.000000
 Value 7: -1.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.0500	10920.00	1189.00	-----	-----	1
2	0.2000	36983.00	4155.77	-----	-----	1
3	0.5000	99845.00	10519.45	-----	-----	1
4	1.0000	213478.00	22762.64	-----	-----	1
5	2.0000	423057.00	45040.38	-----	-----	1
6	5.0000	900846.00	94834.27	-----	-----	1

Calibration Curve : $y = (17653.426884) + (180480.964422)x + (0.000000)x^2 + (0.000000)x^3$
 R-squared : 0.994473

GASOLINE RANGE

Component Type : Named Group
 Group Members:
 C6-C7

Calibrating Area versus Amount using a 1st Order Fit
 Curve will ignore the origin
 Amounts will not be scaled prior to the regression
 Weighting factor for the regression: None
 User Values:

Label :
 Value 1: 0.100000
 Value 2: 0.000000
 Value 3: 1.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.0500	51535.00	2360.91	-----	-----	1
2	0.2000	119033.00	5996.49	-----	-----	1
3	0.5000	402856.00	20256.16	-----	-----	1
4	1.0000	848044.00	43039.94	-----	-----	1
5	2.0000	1660084.00	85065.12	-----	-----	1
6	5.0000	3511552.00	177582.61	-----	-----	1

Calibration Curve : $y = (72495.649476) + (703786.297502)x + (0.000000)x^2 + (0.000000)x^3$
 R-squared : 0.993544

Software Version: 4.1<2F12>

Sample Name : ICAL GAS 1 *50 ppb*

Time : 2/12/01 02:49 PM

Sample Number:

Study : CALIBRATION

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/12/01 02:33 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\212A008.RAW

Result File : C:\TC4\GC16AB\212A008.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\212A008.RST

Proc Method : C:\TC4\GC16AB\METHODS\911C6-C8

Calib Method : C:\TC4\GC16AB\METHODS\911C6-C8

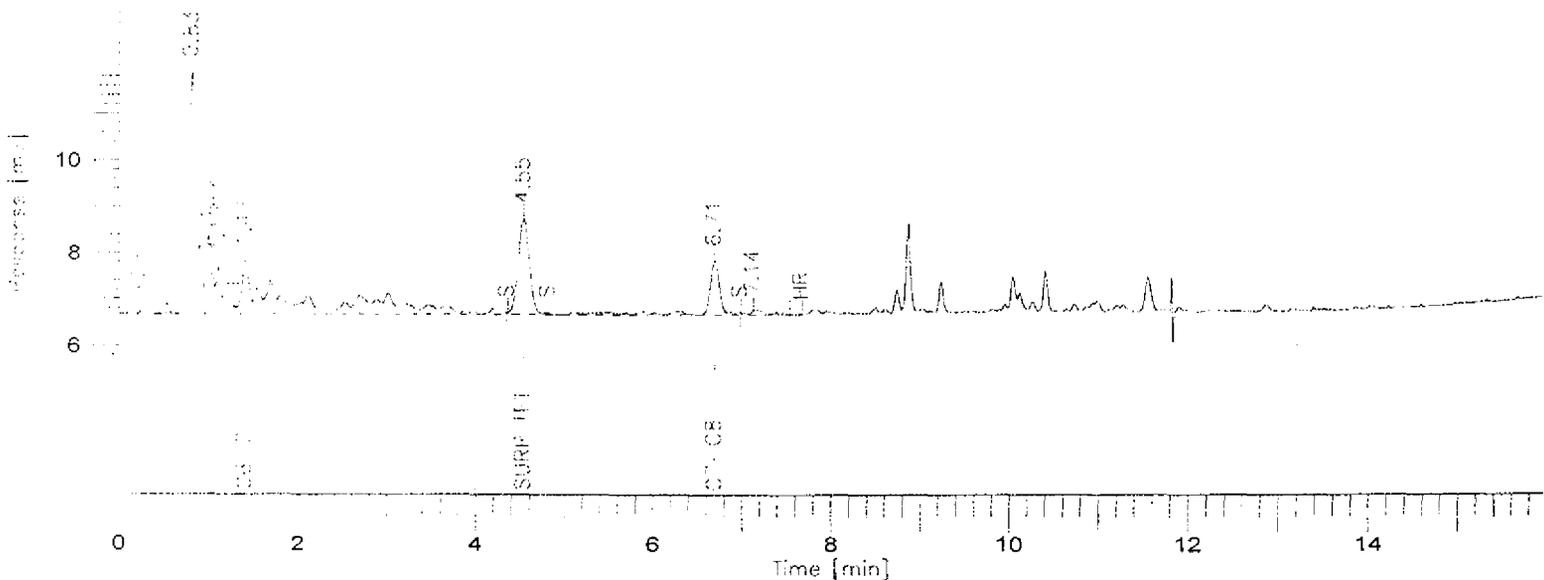
Sequence File : C:\TC4\GC16AB\212C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time      Component      Area      Final      SURR  R.Limits  FN      Raw
[min]    Name             [uV*sec] Results (ppm) % REC  (ppm)    Amount (ppm)
-----
4.55 SURR TFT                18114      0.0069   17.3    0.00    0.0069
6.71 GASOLINE RANGE        51535      0.0407   -----  1.00    0.0407
-----
                                69649                                0.0476
    
```

Group Report For : GASOLINE RANGE

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Time      Component      Area      Final      SURR  R.Limits  FN      Raw
[min]    Name             [uV*sec] Results (ppm) % REC  (ppm)    Amount (ppm)
-----
1.43 C6-C7                40615      0.0393   -----  1.00    0.0393
6.71 C7-C8                10920      0.0439   -----  1.00    0.0439
-----
                                51535                                0.0832
    
```

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STL - LOS ANGELES
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Report stored in ASCII file: C:\TC4\GC16AB\212A008.TX0

Software Version: 4.1<2F12>

Sample Name : ICAL GAS 2 100 ppb

Time : 2/12/01 03:17 PM

Sample Number:

Study : CALIBRATION

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/12/01 03:01 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\212A009.RAW

Result File : C:\TC4\GC16AB\212A009.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\212A009.RST

Proc Method : C:\TC4\GC16AB\METHODS\911C6-C8

Calib Method : C:\TC4\GC16AB\METHODS\911C6-C8

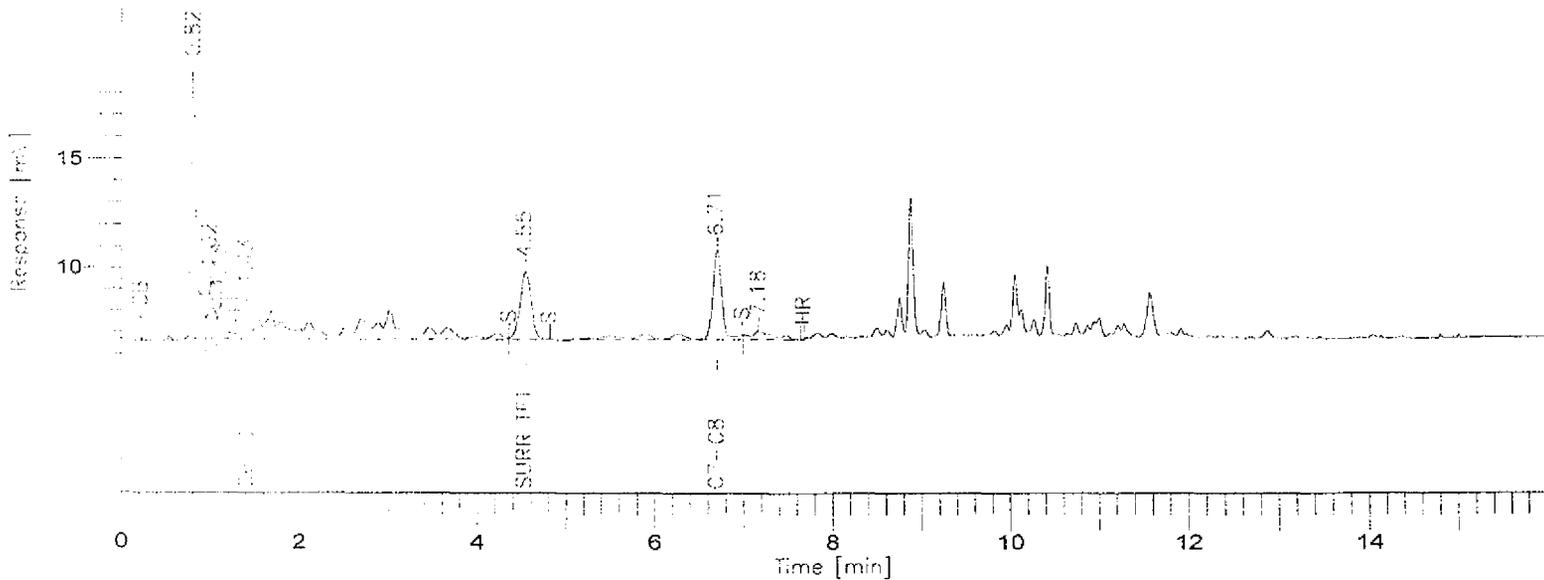
Sequence File : C:\TC4\GC16AB\212C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
4.55	SURR TFT	26691	0.0146	36.6	0.00		0.0146
6.71	GASOLINE RANGE	119033	0.1199	-----	1.00		0.1199
		145724					0.1345

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Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
1.43	C6-C7	82050	0.1097	-----	1.00		0.1097
6.71	C7-C8	36983	0.1425	-----	1.00		0.1425
		119033					0.2522

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STL - LOS ANGELES
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```

Report stored in ASCII file: C:\TC4\GC16AB\212A009.TX0

Software Version: 4.1<2F12>

Sample Name : ICAL GAS 3 *500 ppb*

Time : 2/12/01 03:46 PM

Sample Number:

Study : CALIBRATION

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/12/01 03:30 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\212A010.RAW

Result File : C:\TC4\GC16AB\212A010.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\212A010.RST

Proc Method : C:\TC4\GC16AB\METHODS\911C6-C8

Calib Method : C:\TC4\GC16AB\METHODS\911C6-C8

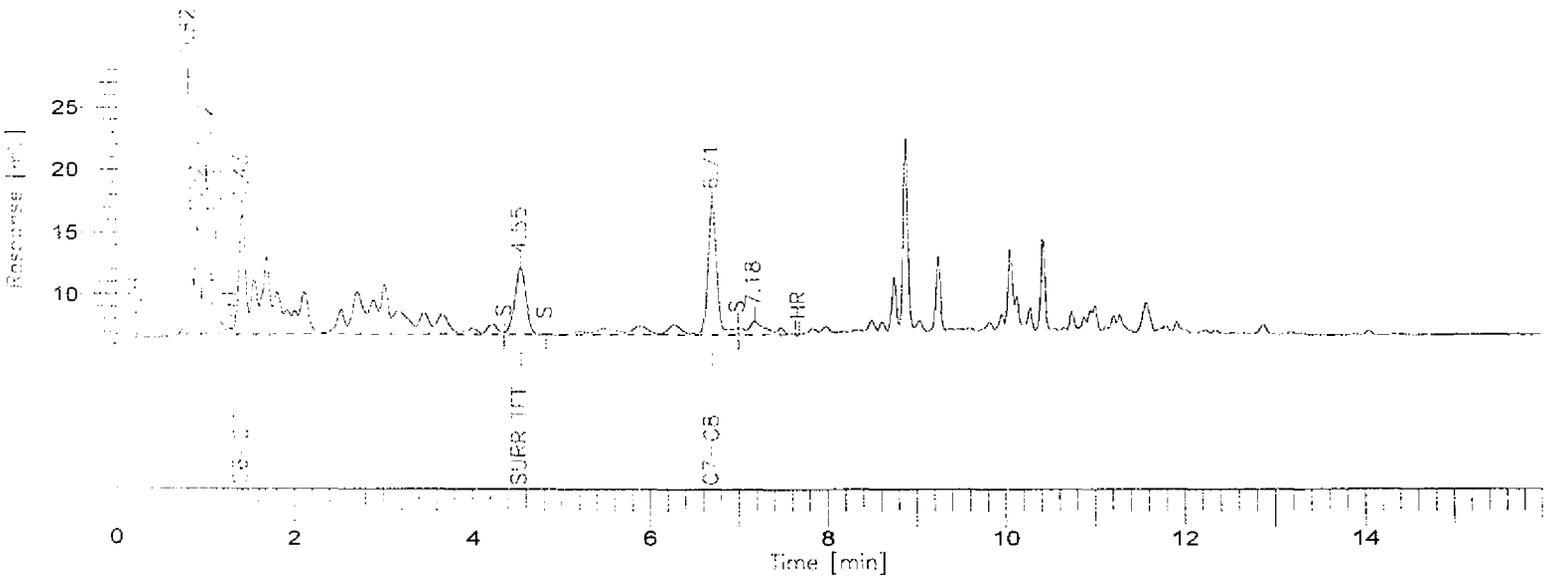
Sequence File : C:\TC4\GC16AB\212C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
4.55	SURR TFT	46480	0.0270	67.5	0.00		0.0270
6.71	GASOLINE RANGE	402856	0.4527	-----	1.00		0.4527
							0.4797

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```

Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
1.43	C6-C7	303011	0.4853	-----	1.00		0.4853
6.71	C7-C8	99845	0.3803	-----	1.00		0.3803
							0.8655

```
=====
```

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\GC16AB\212A010.TX0

Software Version: 4.1<2F12>

Sample Name : ICAL GAS 4 *1000 ppb*

Time : 2/12/01 04:14 PM

Sample Number:

Study : CALIBRATION

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/12/01 03:58 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\212A011.RAW

Result File : C:\TC4\GC16AB\212A011.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\212A011.RST

Proc Method : C:\TC4\GC16AB\METHODS\911C6-C8

Calib Method : C:\TC4\GC16AB\METHODS\911C6-C8

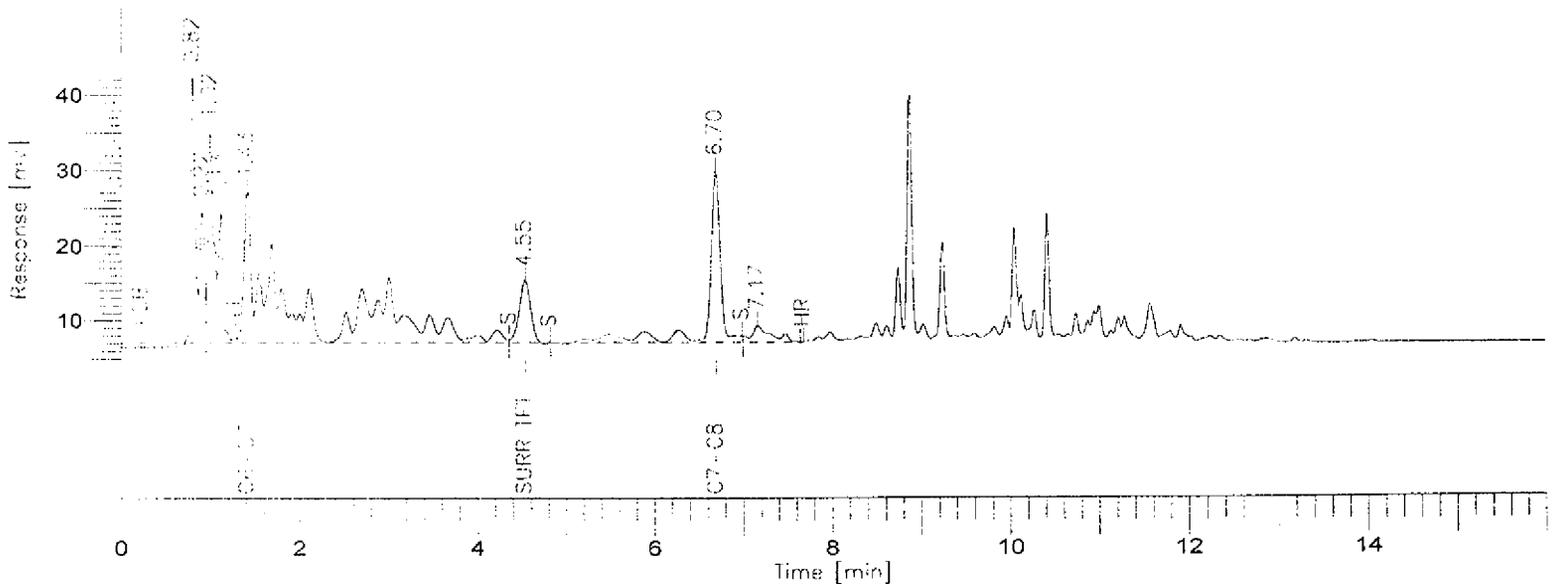
Sequence File : C:\TC4\GC16AB\212C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
4.55	SURR TFT	71665	0.0385	96.2	0.00		0.0385
6.70	GASOLINE RANGE	848044	0.9748	-----	1.00		0.9748
							1.0133

```
-----
```

Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
1.43	C6-C7	634566	1.0488	-----	1.00		1.0488
6.70	C7-C8	213478	0.8101	-----	1.00		0.8101
							1.8589

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STL - LOS ANGELES

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```

Report stored in ASCII file: C:\TC4\GC16AB\212A011.TX0

Software Version: 4.1<2F12>

Sample Name : ICAL GAS 5 *2000 ppb*

Time : 2/12/01 04:43 PM

Sample Number:

Study : CALIBRATION

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/12/01 04:27 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\212A012.RAW

Result File : C:\TC4\GC16AB\212A012.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\212A012.RST

Proc Method : C:\TC4\GC16AB\METHODS\911C6-C8

Calib Method : C:\TC4\GC16AB\METHODS\911C6-C8

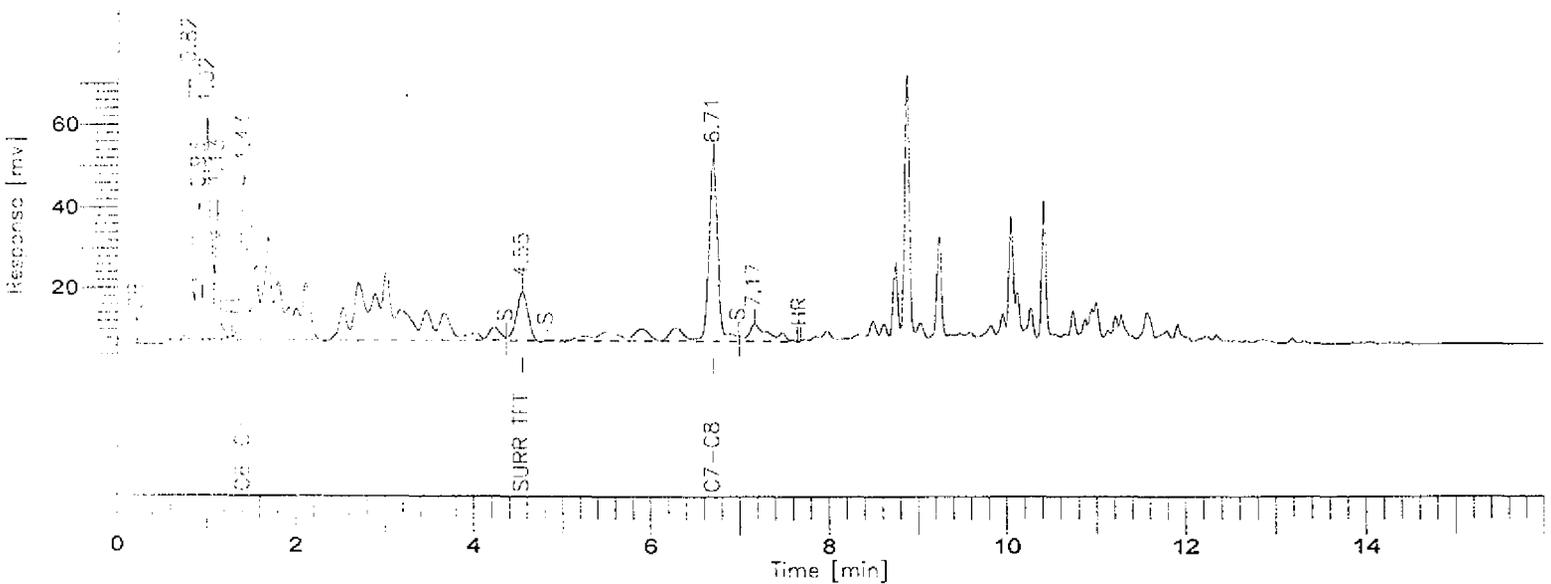
Sequence File : C:\TC4\GC16AB\212C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
4.55	SURR TFT	104312	0.0503	125.7	0.00		0.0503
6.71	GASOLINE RANGE	1660084	1.9271	-----	1.00		1.9271
		1764396					1.9773

```
-----
```

Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
1.43	C6-C7	1237027	2.0727	-----	1.00		2.0727
6.71	C7-C8	423057	1.6028	-----	1.00		1.6028
		1660084					3.6756

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STL - LOS ANGELES

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Report stored in ASCII file: C:\TC4\GC16AB\212A012.TX0

Software Version: 4.1<2F12>

Sample Name : ICAL GAS 6 *5000 ppb*

Time : 2/12/01 05:11 PM

Sample Number:

Study : CALIBRATION

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/12/01 04:55 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\212A013.RAW

Result File : C:\TC4\GC16AB\212A013.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\212A013.RST

Proc Method : C:\TC4\GC16AB\METHODS\911C6-C8

Calib Method : C:\TC4\GC16AB\METHODS\911C6-C8

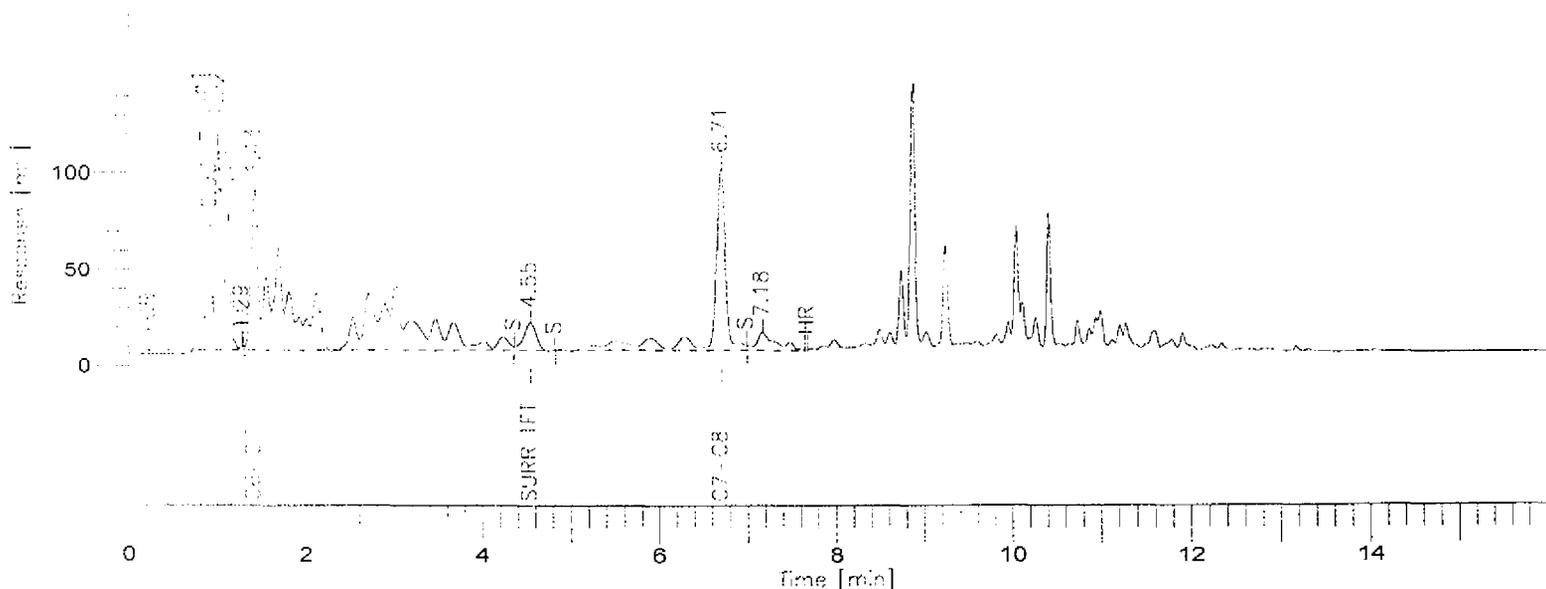
Sequence File : C:\TC4\GC16AB\212C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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```

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
4.55	SURR TFT	130814	0.0584	146.0	0.00		0.0584
6.71	GASOLINE RANGE	3511552	4.0983	-----	1.00		4.0983
		3642366					4.1567

```
-----
```

Group Report For : GASOLINE RANGE

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	SURR % REC	R.Limits (ppm)	FN	Raw Amount (ppm)
1.43	C6-C7	2610706	4.4075	-----	1.00		4.4075
6.71	C7-C8	900846	3.4101	-----	1.00		3.4101
		3511552					7.8176

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STL - LOS ANGELES

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```

Report stored in ASCII file: C:\TC4\GC16AB\212A013.TX0

Software Version: 4.1<2F12>

Sample Name : MARKER

Time : 2/12/01 06:08 PM

Sample Number: MARKER

Study :

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/12/01 05:52 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\212A015.RAW

Result File : C:\TC4\GC16AB\212A015.RST

Inst Method : C:\TC4\GC16AB\METHODS\911C6-C8 from C:\TC4\GC16AB\212A015.RST

Proc Method : C:\TC4\GC16AB\METHODS\911C6-C8

Calib Method : C:\TC4\GC16AB\METHODS\911C6-C8

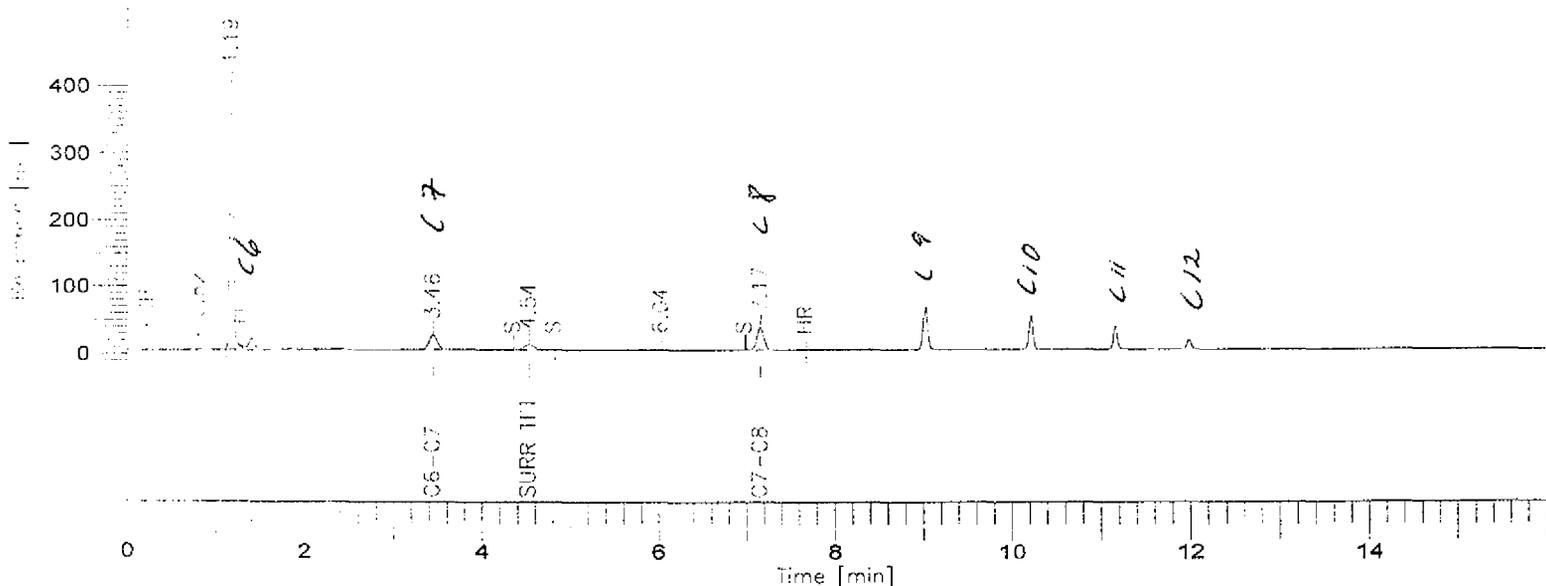
Sequence File : C:\TC4\GC16AB\212C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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=====
Time      Component      Area      Final      SURR  R.Limits  FN      Raw
[min]     Name                [uV*sec]  Results (ppm) % REC   (ppm)   Amount (ppm)
-----
4.54 SURR TFT                58855      0.0330    82.5    0.00    0.0330
7.17 GASOLINE RANGE          520798      0.5910    -----  1.00    0.5910
-----
                          579653                                0.6240
=====
```

Group Report For : GASOLINE RANGE

```
Time      Component      Area      Final      SURR  R.Limits  FN      Raw
[min]     Name                [uV*sec]  Results (ppm) % REC   (ppm)   Amount (ppm)
-----
3.46 C6-C7                342173      0.5518    -----  1.00    0.5518
7.17 C7-C8                178625      0.6782    -----  1.00    0.6782
-----
                          520798                                1.2301
=====
```

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\GC16AB\212A015.TX0

Software Version: 4.1<2F12>

Sample Name : LCS GAS 2 PPM

Time : 2/13/01 10:13 AM

Sample Number: LCS GAS

Study :

Operator :

Instrument : GC16AB

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2346570928 Data Acquisition Time: 2/12/01 06:21 PM

Delay Time : 0.00 min.

End Time : 16.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\GC16AB\212A016.RAW

Result File : C:\TC4\GC16AB\212A016.RST

Inst Method : C:\TC4\GC16AB\METHODS\212C6-C8 from C:\TC4\GC16AB\212A016.RST

Proc Method : C:\TC4\GC16AB\METHODS\212C6-C8 from C:\TC4\GC16AB\212A016.RST

Calib Method : C:\TC4\GC16AB\METHODS\212C6-C8 from C:\TC4\GC16AB\212A016.RST

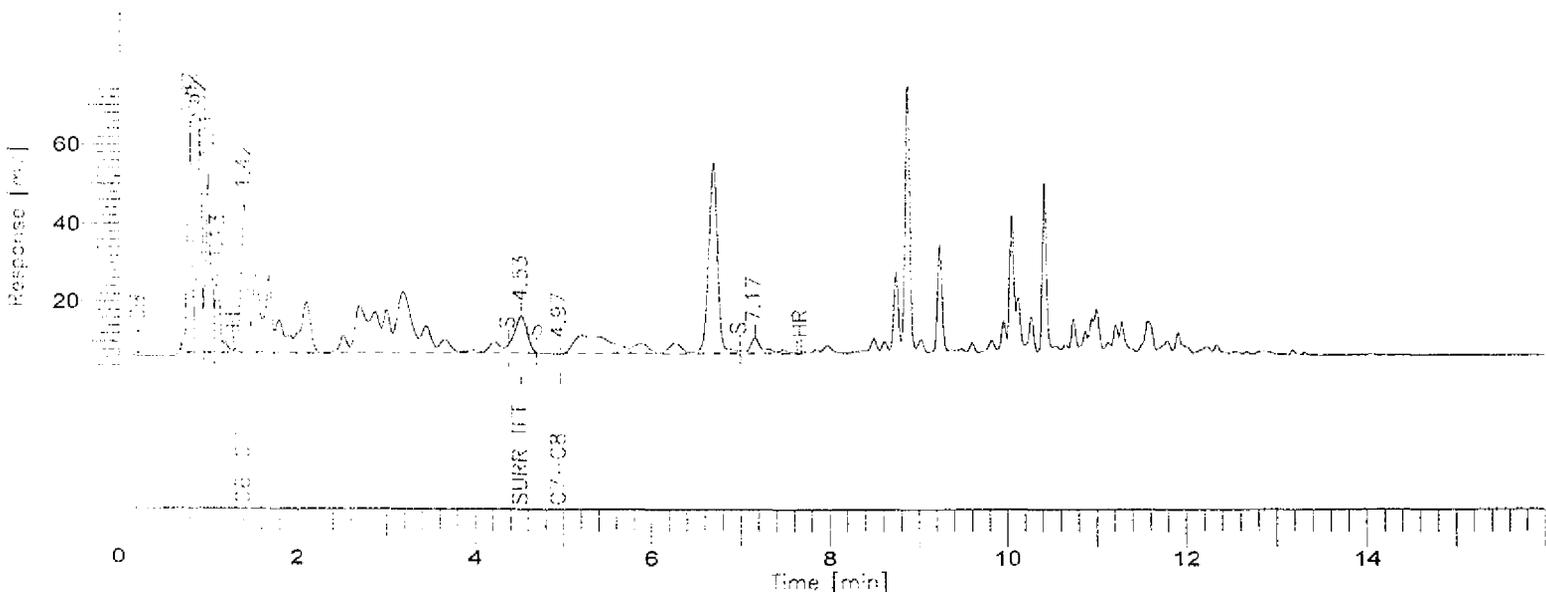
Sequence File : C:\TC4\GC16AB\212C6-8.SEQ

Sample Volume : 1.0000 ml

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00



8015B (TVPH)

GC-16/FID COLUMN: DB-624

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```

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	QC Spike (ppm)	QC % REC	FN	Raw Amount (ppm)
1.42	GASOLINE RANGE	1591323	2.1581	1.0000	215.8		2.1581
4.53	SURR TFT	90168	0.0531	0.0400	132.7		0.0531
		1681491					2.2112

Standard interference
AK

Group Report For : GASOLINE RANGE

```
=====
```

Time [min]	Component Name	Area [uV*sec]	Final Results (ppm)	QC Spike (ppm)	QC % REC	FN	Raw Amount (ppm)
1.42	C6-C7	1077470	1.9542	1.0000	195.4		1.9542
4.97	C7-C8	513853	2.7493	1.0000	274.9		2.7493
		1591323					4.7035

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\GC16AB\212A016.TX0

Component Name: "SURR TFT"

Date: 2/14/01 Time: 01:57 PM

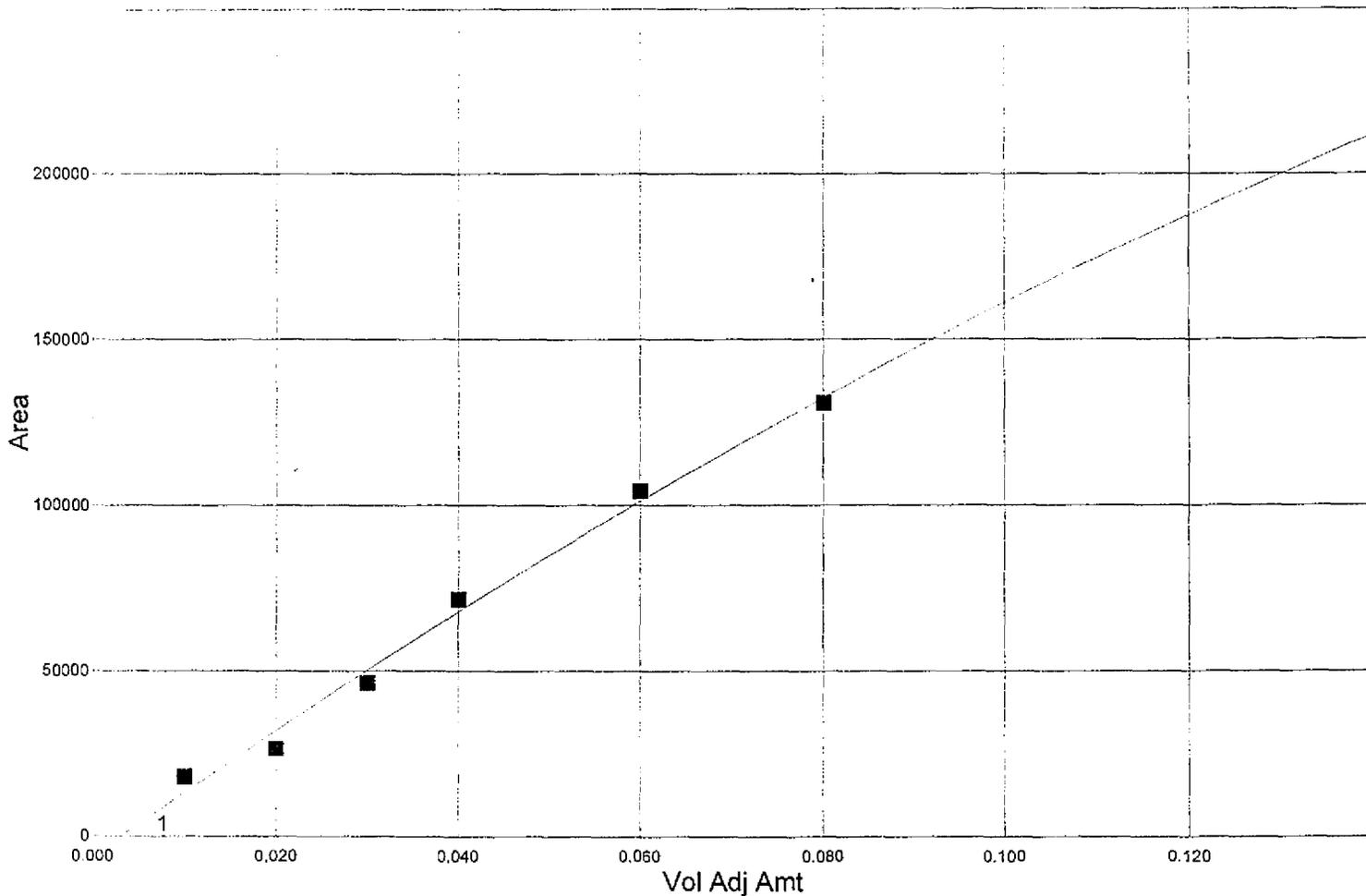
Curve Parameters:

Curve #1 : 2nd Order

Weighting Factor = 1.0 (No Weighting) $r^2 = 0.990690$

Calibration Curve = $(-5893.777183) + (1965048.056338)X + (-2936374.647887)X^2$

SURR TFT



Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.012449	-0.002449	-19.672	18114.000	13463.066	4650.934	34.546
2	0.020000	0.017015	0.002985	17.545	26691.000	32232.634	-5541.634	-17.193
3	0.030000	0.027808	0.002192	7.882	46480.000	50414.927	-3934.927	-7.805
4	0.040000	0.042120	-0.002120	-5.034	71665.000	68009.946	3655.054	5.374
5	0.060000	0.061788	-0.001788	-2.894	104312.000	101438.157	2873.843	2.833
6	0.080000	0.078863	0.001137	1.441	130814.000	132517.270	-1703.270	-1.285

Turbochrom Sequence File : C:\TC4\GC16AB\212C6-8.SEQ
 Created by : LY on : 2/12/01 09:47 AM
 Edited by : DL on : 2/14/01 11:39 AM
 Description : *****STANDARD ID*****
 ICAL/CCV STD: TVPH # S-GCV-001-12
 QC Gasoline (Low level) S-GCV-001-19
 Surrogate TFT: S-CGV-001-10

Number of Times Edited : 20

Sequence File Header Information:

Number of Rows : 234
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
2	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
3	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
4	Sample	LCS GAS	LCS GAS		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
5	Sample	MB S	MB S		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
6	Sample	LCS GAS TEST	LCS GAS	CALIBRATIO	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
7	Sample	MB W	MB W	CALIBRATIO	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
8	Sample	ICAL GAS 1		CALIBRATIO	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
9	Sample	ICAL GAS 2		CALIBRATIO	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
10	Sample	ICAL GAS 3		CALIBRATIO	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
11	Sample	ICAL GAS 4		CALIBRATIO	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
12	Sample	ICAL GAS 5		CALIBRATIO	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
13	Sample	ICAL GAS 6		CALIBRATIO	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
14	Sample	MB W	MB W		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
15	Sample	MARKER	MARKER		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
16	Sample	LCS GAS 2 PPM	LCS GAS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
17	Sample	LCS GAS S	LCS GAS S	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
18	Sample	MB S	MB S	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
19	Sample	B090348-2	348-2	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
20	Sample	B090348-3	348-3	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
21	Sample	B090348-4	348-4	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
22	Sample	B090348-5	348-5	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
23	Sample	B090348-6	348-6	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
24	Sample	B090348-7	348-7	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
25	Sample	B090348-8	348-8	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
26	Sample	B090348-9	348-9	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
27	Sample	B090348-10	348-10	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
28	Sample	B090348-12	348-12	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
29	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
30	Sample	MB S	MB S		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
31	Sample	B090348-13	348-13	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
32	Sample	B090348-14	348-14	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
33	Sample	B090348-15	348-15	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
34	Sample	B090348-17	348-17	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
35	Sample	B090348-18	348-18	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
36	Sample	B090348-19	348-19	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
37	Sample	B090307-2	307-2	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
38	Sample	B090307-3	307-3	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
39	Sample	B090307-4	307-4	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
40	Sample	B090307-5	307-5	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
41	Sample	B090348-12 GMS	348-12 GMS	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
42	Sample	B090348-12 GMSD	348-12GMSD	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
43	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
44	Sample	LCS GAS	LCS GAS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
45	Sample	MB W	MB W		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
46	Sample	B090306-18	306-18	PH<2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
47	Sample	B090348-16	348-16	PH<2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
48	Sample	B090348-16 GMS	348-16 GMS	PH<2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
49	Sample	B090348-16 GMSD	348-16GMSD	PH<2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
50	Sample	GASCCV	GASCCV		1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
51	Sample	LCS GAS	LCS GAS		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
52	Sample	MB S	MB S		1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
53	Sample	B120199-22	199-22	PH<2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
54	Sample	B090348-2	348-2	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000
55	Sample	B090348-3	348-3	LOW SOIL	1.000	1.000	1.000	1.000	5.000	1.000	0.000	0.000

TEPH

LEVEL III
(FULL DATA PACKAGE)

EXTRACTION NOTES

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 2/19/01
Time: 9:57:30

* QC BATCH: 1047422 *
* *****

PREP DATE: 2/16/01 15:00
COMP DATE: 2/16/01 19:00

2/20

EXTR EXPR	ANL DUE	LOT#,MSRGN#/ WORK ORDER	TEST FLGS	EXT OB	MTH OB	MATRIX KI	INIT/FIN WT/VOL	INIT ADJT	PH"S ADJT	ADJ2	EXTRACTION VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SUBROGATE ID
3/01/01 COMMENTS:	2/21/01	E1B150298-022 DV7Q4-1-AFS	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-2DCS/5000PPM/1M TEPH1577-1SCS/250PPM/1ML
3/01/01 COMMENTS:	2/21/01	E1B150298-023 DV7Q5-1-AFD	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-2DCS/5000PPM/1M TEPH1577-1SCS/250PPM/1ML
3/01/01 COMMENTS:	2/21/01	E1B150298-024 DV7Q6-1-AA	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-1SCS/250PPM/1ML
3/01/01 COMMENTS:	2/21/01	E1B150298-025 DV7Q8-1-AA	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-1SCS/250PPM/1ML
3/01/01 COMMENTS:	2/21/01	E1B150298-026 DV7Q9-1-AA	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-1SCS/250PPM/1ML
3/01/01 COMMENTS:	2/21/01	E1B150298-027 DV7RA-1-AA	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-1SCS/250PPM/1ML
3/01/01 COMMENTS:	2/21/01	E1B150298-028 DV7RD-1-AA	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-1SCS/250PPM/1ML
2/28/01 COMMENTS:	2/20/01	E1B160288-001 DV9FL-1-AC	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-1SCS/250PPM/1ML
2/28/01 COMMENTS:	2/20/01	E1B160288-002 DV9FS-1-AB	1047232	DR	OB	KI	20g 5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-1SCS/250PPM/1ML

e-cha

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 2/19/01
Time: 9:57:30

* QC BATCH: 1047422 *
* *****

PREP DATE: 2/16/01 15:00
COMP DATE: 2/16/01 19:00

EXTR EXPR	ANL DUE	LOT#,MSRNUM/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FTN WT/VOL	INIT ADJ1	PH"S ADJ2	EXTRACTION VOL	SOLVENTS VOL	EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
--------------	------------	----------------------------	--------------	------------	--------	--------------------	--------------	--------------	-------------------	-----------------	-----------------	---------------------------------

3/01/01	0/00/00	E1B160000-422 DV965-1-AAB		0B	KI	SOLID	20g	5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-1SCS/250PPM/1ML
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3/01/01	0/00/00	E1B160000-422 DV965-1-ACC		0B	KI	SOLID	20g	5.00mL	NA	NA	NA	MECL2	80.0	.0	TEPH1577-2DCS/5000PPM/1M TEPH1577-1SCS/250PPM/1ML
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SPKD BY: FA MECL2 LOT#T49E52 NA2SO4 LOT#8024
 EXT METHOD: SOLID/SOLVENT EXTRACTION (AUTO SHAKER)
 RELINQUISHED BY/DATE: FA/2-19-01 RECEIVED BY/DATE: 8-2-19-01

R = RUSH C = CLP NUMBER OF WORK ORDERS IN BATCH: 19
 E = EPA 600 D = EXP. DEL)
 M = CLIENT REQ MS/MSD

TEPH

SAMPLE AND QC DATA

Date(s) Analyzed: ⁶ 2-19-01

Instrument ID: GC1 GC2 GC3

Lab #: E1B 160288

Batch #: 1047422

Samples: MB, LCS, 01, 02 (soils)

E1B 150298 - 22, 22 MS, 22 MS1 (batched QC)

Turbochrom Sequence File : C:\TC4\DATA_01\219.SEQ
 Created by : doug on : 2/19/01 08:10 AM
 Edited by : EC on : 2/20/01 07:10 AM
 Description :

Number of Times Edited : 6

Sequence File Header Information:

Number of Rows : 108
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	DAILY RT MARKER	C8-C40	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Std Check	#TEPH01-41 DIES	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Std Check	#TEPH01-37 RT M	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	B160288-MB	DV9G51AAB	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
7	Sample	B160288-LCS	DV9G51ACC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
8	Sample	B160288-01	DV9F11AC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
9	Sample	B160288-02	DV9F91AE	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
10	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
11	Sample	B150298-22	DV7Q41AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
12	Sample	B150298-22 MS	DV7Q41AES	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
13	Sample	B150298-22 MSD	DV7Q41AFD	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
14	Sample	B150298-MB	DV9HK1AAB	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
15	Sample	B150298-LCS	DV9HK1ACC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
16	Sample	B150298-LCD	DV9HK1ADL	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
17	Std Check	#TEPH01-41 DIES	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Std Check	#TEPH01-37 RT M	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	B150298-29	DV7RE1AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1050.000	0.000	100.000
20	Sample	B150298-02	DV7RN1AC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	887.000	0.000	100.000
21	Sample	B150298-03	DV7RR1AC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	966.000	0.000	100.000
22	Sample	B150298-23	DV7Q51AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
23	Sample	B150298-24	DV7Q61AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
24	Sample	B150298-25	DV7Q81AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
25	Sample	B150298-26	DV7Q91AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
26	Sample	B150298-27	DV7RA1AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
27	Sample	B150298-28	DV7RD1AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
28	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
29	Std Check	#TEPH01-41 DIES	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Std Check	#TEPH01-37 RT M	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DAILY RT MARKER	C8-C40	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Std Check	#TEPH01-41 DIES	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Std Check	#TEPH01-37 RT M	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
36	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
37	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
38	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
39	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
40	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
41	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
42	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
43	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
44	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
45	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
46	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
47	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
48	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
49	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
50	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
51	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
52	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
53	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
54	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
55	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
56	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
57	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
58	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
59	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
60	Sample			ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000

Software Version: 4.1<2F12>

Sample Name : DAILY RT MARKER

Time : 2/19/01 09:44 AM

Sample Number: C8-C40

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 09:23 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_003.RAW

Result File : C:\TC4\DATA_01\219_003.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_003.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

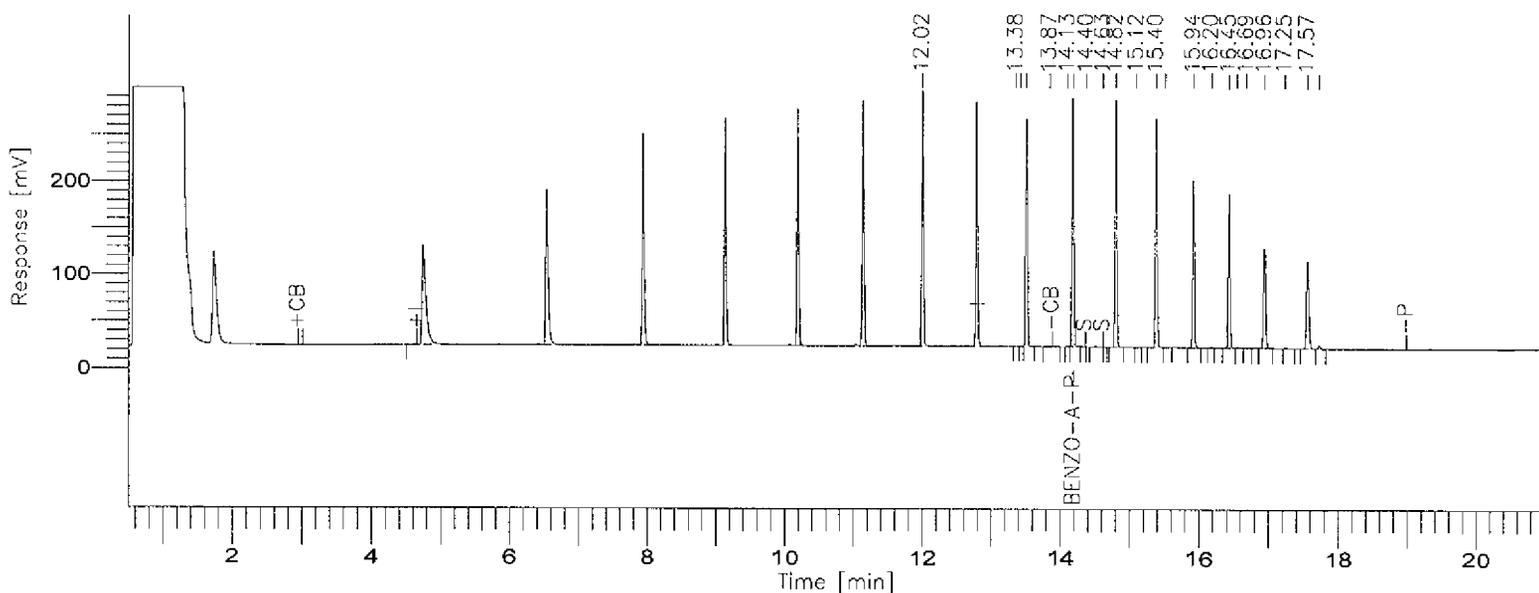
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 22



8015B(TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
9.68	DIESEL C10-C24	0	0.000	-----	10.0	
14.20	BENZO-A-PYRENE	418259	36.558	292.5	10.0	
		418259	36.558			

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_003.TX0

Software Version: 4.1<2F12>

Sample Name : #TEPH01-41 DIESEL STD

Time : 2/19/01 10:14 AM

Sample Number: 1000 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 09:53 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_004.RAW

Result File : C:\TC4\DATA_01\219_004.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_004.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

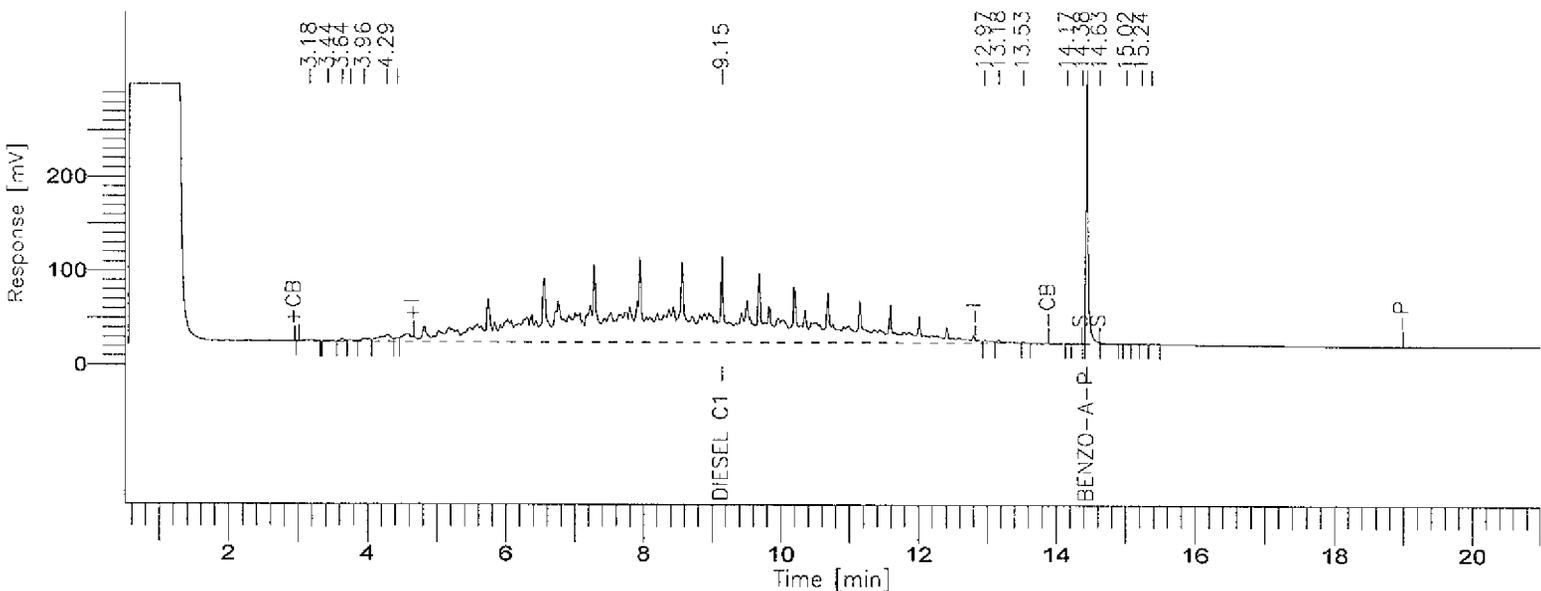
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 19



8015B(TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
3.178		11719	0.0117	-----	-----
3.439		4614	0.0046	-----	-----
3.644		12600	0.0126	-----	-----
3.759		8419	0.0084	-----	-----
3.958		23896	0.0239	-----	-----
4.289		82328	0.0823	-----	-----
4.441		18534	0.0185	-----	-----
9.151	DIESEL C10-C24	9834642	955.3984	1000.0	-4.46
12.966		22530	0.0225	-----	-----
13.176		24690	0.0247	-----	-----
13.531		2446	0.0024	-----	-----
14.168		1203	0.0012	-----	-----
14.383		2630	0.0026	-----	-----
14.383		974	0.0010	-----	-----
14.450	BENZO-A-PYRENE	561151	49.0475	50.0	-1.90
14.633		7166	0.0072	-----	-----
15.020		1052	0.0011	-----	-----
15.240		1155	0.0012	-----	-----
15.385		1189	0.0012	-----	-----
		10622938	1004.6731		

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\DATA_01\219_004.TX0

Software Version: 4.1<2F12>

Sample Name : #TEPH01-37 RT MARKER

Time : 2/19/01 10:44 AM

Sample Number: 30 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 10:23 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_005.RAW

Result File : C:\TC4\DATA_01\219_005.RST

Inst Method : C:\TC4\DATA_01\METHODS\C8-C40A from C:\TC4\DATA_01\219_005.RS

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

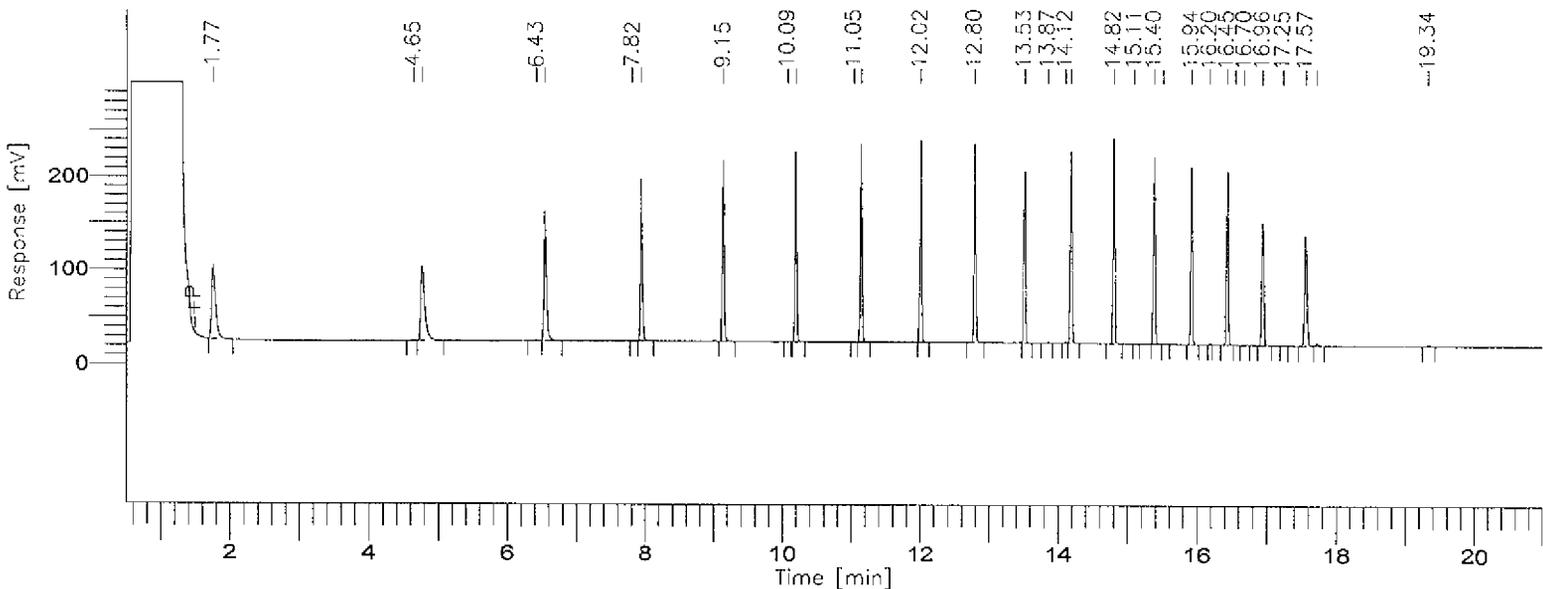
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 32



8015B(TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
3.190	C8-C9	310036	30.5715	30.0	1.90
5.598	C10-C11	317212	29.6340	30.0	-1.22
7.198	C12-C13	319148	29.2248	30.0	-2.58
8.498	C14-C15	321716	29.1205	30.0	-2.93
9.622	C16-C17	326775	29.2289	30.0	-2.57
10.622	C18-C19	329590	29.0527	30.0	-3.16
11.923	C20-C23	663934	29.1538	30.0	-2.82
13.448	C24-C27	673468	29.2256	30.0	-2.58
14.748	C28-C31	663158	28.6324	30.0	-4.56
15.873	C32-C35	642617	28.0391	30.0	-6.54
16.949	C36-C39	597780	26.3130	30.0	-12.29
19.249	C40+	286639	25.6980	30.0	-14.34
		5452072	343.8943		

Group Report For : C8-C9

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
1.766		308683	0.3087	-----	-----
4.651		1352	0.0014	-----	-----
		310036	0.3100		

Group Report For : C10-C11

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
4.775		315526	0.3155	-----	-----
6.430		1687	0.0017	-----	-----
		317212	0.3172		

Group Report For : C12-C13

Time	Component	Area	ACTUAL	TRUE	%
------	-----------	------	--------	------	---

[min]	Name	[$\mu\text{V}\cdot\text{s}$]	VALUE (PPM)	VALUE	D
6.552		317700	0.3177	-----	-----
7.820		1448	0.0014	-----	-----
		319148	0.3191		

Group Report For : C14-C15

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
7.953		321716	0.3217	-----	-----
		321716	0.3217		

Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
9.149		325721	0.3257	-----	-----
10.086		1054	0.0011	-----	-----
		326775	0.3268		

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
10.202		327876	0.3279	-----	-----
11.049		1714	0.0017	-----	-----
		329590	0.3296		

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
11.152		332610	0.3326	-----	-----
12.016		331323	0.3313	-----	-----
		663934	0.6639		

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
12.802		335346	0.3353	-----	-----
13.529		335474	0.3355	-----	-----
13.866		901	0.0009	-----	-----
14.122		1748	0.0017	-----	-----
		673468	0.6735		

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
14.198		334006	0.3340	-----	-----
14.817		328689	0.3287	-----	-----
15.114		463	0.0005	-----	-----
		663158	0.6632		

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
15.398		328907	0.3289	-----	-----
15.531		691	0.0007	-----	-----
15.936		312532	0.3125	-----	-----
16.197		487	0.0005	-----	-----
		642617	0.6426		

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
16.448		309028	0.3090	-----	-----
16.562		1198	0.0012	-----	-----
16.695		1163	0.0012	-----	-----
16.957		285751	0.2858	-----	-----
17.249		640	0.0006	-----	-----
		597780	0.5978		

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
17.572		277458	0.2775	-----	-----
17.736		6131	0.0061	-----	-----
19.339		3050	0.0031	-----	-----
		286639	0.2866		

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_005.TX0

Software Version: 4.1<2F12>

Sample Name : #TEPH01-41 DIESEL STD

Time : 2/19/01 04:53 PM

Sample Number: 1000 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 04:24 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_017.RAW

Result File : C:\TC4\DATA_01\219_017.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_017.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_017.R

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_017.R

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

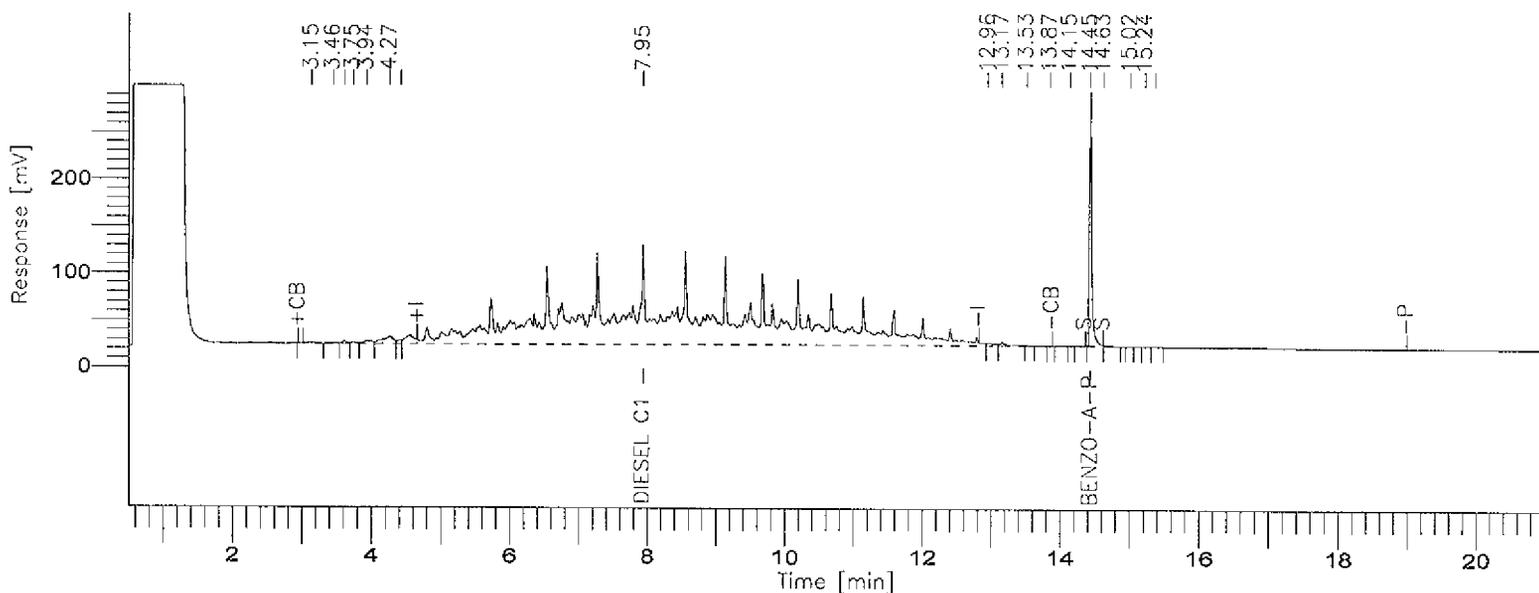
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 18



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
3.153		12275	0.0123	-----	-----
3.461		6234	0.0062	-----	-----
3.625		14592	0.0146	-----	-----
3.748		8908	0.0089	-----	-----
3.940		27731	0.0277	-----	-----
4.270		88826	0.0888	-----	-----
4.432		19344	0.0193	-----	-----
7.952	DIESEL C10-C24	10328599	1003.3844	1000.0	0.34
12.962		24108	0.0241	-----	-----
13.170		27032	0.0270	-----	-----
13.527		2699	0.0027	-----	-----
13.867		712	0.0007	-----	-----
14.154		862	0.0009	-----	-----
14.448	BENZO-A-PYRENE	583801	51.0272	50.0	2.05
14.633		4766	0.0048	-----	-----
15.021		1066	0.0011	-----	-----
15.238		1096	0.0011	-----	-----
15.382		1360	0.0014	-----	-----
		11154008	1054.6533		

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\DATA_01\219_017.TX0

Software Version: 4.1<2F12>

Sample Name : #TEPH01-37 RT MARKER

Time : 2/19/01 05:15 PM

Sample Number: 30 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 04:55 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_018.RAW

Result File : C:\TC4\DATA_01\219_018.RST

Inst Method : C:\TC4\DATA_01\METHODS\C8-C40A from C:\TC4\DATA_01\219_018.RS

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

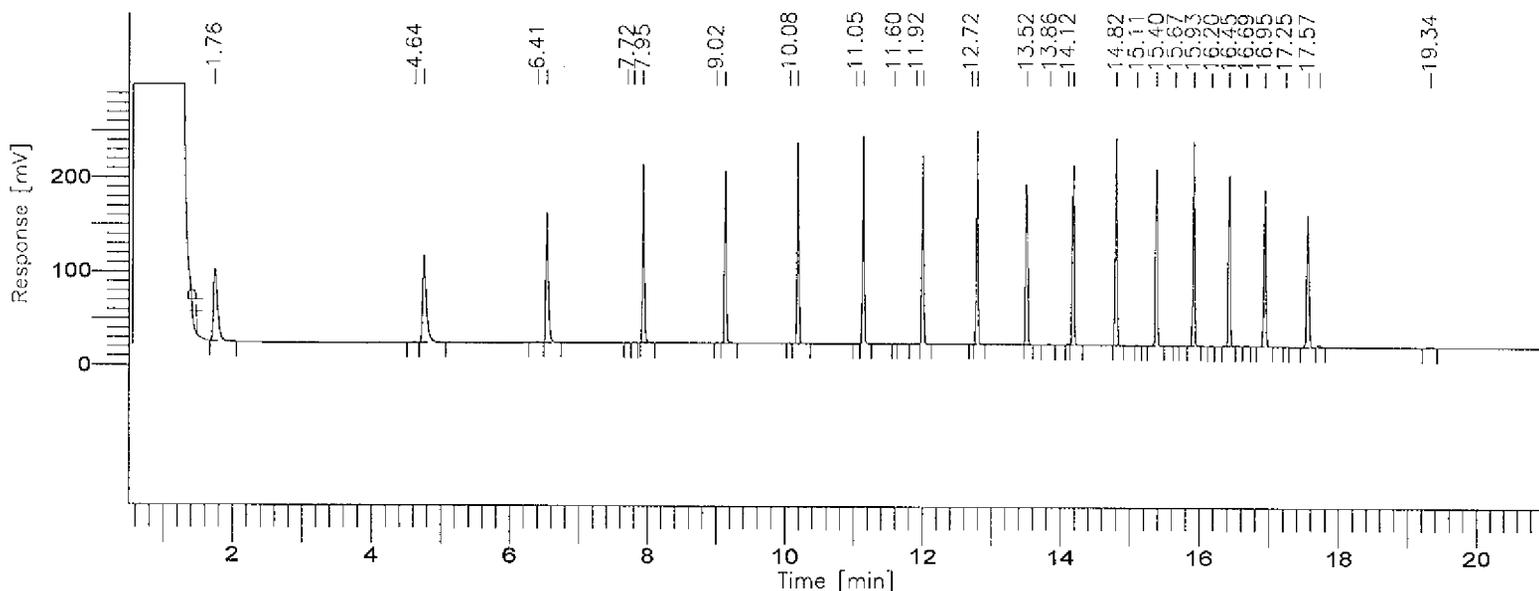
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 36



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
3.190	C8-C9	321320	31.6843	30.0	5.61
5.598	C10-C11	338254	31.5997	30.0	5.33
7.198	C12-C13	336969	30.8567	30.0	2.86
8.498	C14-C15	335376	30.3570	30.0	1.19
9.622	C16-C17	338018	30.2346	30.0	0.78
10.622	C18-C19	337722	29.7696	30.0	-0.77
11.923	C20-C23	676850	29.7210	30.0	-0.93
13.448	C24-C27	689324	29.9136	30.0	-0.29
14.748	C28-C31	683138	29.4951	30.0	-1.68
15.873	C32-C35	683298	29.8140	30.0	-0.62
16.949	C36-C39	661328	29.1103	30.0	-2.97
19.249	C40+	320454	28.7296	30.0	-4.23
		5722052	361.2854		

Group Report For : C8-C9

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
1.758		319730	0.3197	-----	-----
4.638		1590	0.0016	-----	-----
		321320	0.3213		

Group Report For : C10-C11

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
4.769		336100	0.3361	-----	-----
6.413		2154	0.0022	-----	-----
		338254	0.3383		

Group Report For : C12-C13

Time	Component	Area	ACTUAL	TRUE	%
------	-----------	------	--------	------	---

[min]	Name	[$\mu\text{V}\cdot\text{s}$]	VALUE (PPM)	VALUE	D
6.548		334885	0.3349	-----	-----
7.720		520	0.0005	-----	-----
7.815		1564	0.0016	-----	-----
		336969	0.3370		

Group Report For : C14-C15

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
7.951		334634	0.3346	-----	-----
9.017		743	0.0007	-----	-----
		335376	0.3354		

Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
9.147		336955	0.3370	-----	-----
10.083		1063	0.0011	-----	-----
		338018	0.3380		

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
10.201		335831	0.3358	-----	-----
11.046		1891	0.0019	-----	-----
		337722	0.3377		

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
11.151		337271	0.3373	-----	-----
11.599		293	0.0003	-----	-----
11.919		1271	0.0013	-----	-----
12.015		336556	0.3366	-----	-----
12.720		1459	0.0015	-----	-----

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
		676850	0.6769		

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
12.801		342093	0.3421	-----	-----
13.524		343898	0.3439	-----	-----
13.858		1429	0.0014	-----	-----
14.120		1904	0.0019	-----	-----
		689324	0.6893		

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
14.196		343610	0.3436	-----	-----
14.816		339004	0.3390	-----	-----
15.113		525	0.0005	-----	-----
		683138	0.6831		

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
15.396		344896	0.3449	-----	-----
15.668		814	0.0008	-----	-----
15.934		336948	0.3369	-----	-----
16.195		639	0.0006	-----	-----
		683298	0.6833		

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
16.445		340392	0.3404	-----	-----
16.690		1242	0.0012	-----	-----

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
16.953		319052	0.3191	-----	-----
17.247		643	0.0006	-----	-----
		661328	0.6613		

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D
17.569		310639	0.3106	-----	-----
17.734		6006	0.0060	-----	-----
19.335		3810	0.0038	-----	-----
		320454	0.3205		

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STL - LOS ANGELES
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Report stored in ASCII file: C:\TC4\DATA_01\219_018.TX0

PDE120
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:32

Lot/Sample: E1B160000-422B INTRA-LAB BLANK TICs.....: N Report Results: Y
WO#.....: DV9G5-1-AA Est. Results: Y Sig Fig Alg...: A
SAC.....: XX A 0B KI 01 Dry Weight...: N Upload.....: Y
Method....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
Inject Time...: 10:53 Inject Vol: 1.0 Units: uL
Analyst.....: 356074 Elvie Concepcion
Dil Factor: 1.00 Instr File: 219_006A
Instr ID: G01 Column: RTX-1 ID: .53
Sampling date.....: 2/15/01
Leach Date.....: 0/00/00
Leach Batch.....:
Buffer Type.....:
Leach Weight.....: .0
Leach Volume.....: 0 Units:
Entered by.....: CONCEPCE 1/02/20 8:39:28
Prep Comments.....:
Analysis Comments...:
Result Units.....: mg/kg

Prep Date.....: 2/16/01
QC Batch.....: 1047422
MS Run Number:
Prep Time.....: 15:00-19:00
Init Wgt/Vol.: 20 Units: g
Final Wgt/Vol.: 5.00 Units: mL
pH Values.: I) .0 1) .0 2) .0
Extract Solv.: MECL2 Amt...: 80.0
Exchange Solv: Amt...: .0
Spike.....:
Surrogate: TEPH1577-1SCS/250PPM/1ML
Total Solids.: .00

SYN#	Analyte	* Exc SPK Code	Result	Limit	MDL	Data Qual	Report Qual
05120	C8-C9		ND	10	5		
05121	C10-C11		ND	10	5		
05122	C12-C13		ND	10	5		
05123	C14-C15		ND	10	5		
05124	C16-C17		ND	10	5		
05125	C18-C19		ND	10	5		
05201	C20-C23		ND	10	5		
05202	C24-C27		ND	10	5		
05203	C28-C31		ND	10	5		
05204	C32-C35		ND	10	5		
05205	C36-C39		ND	10	5		
05132	C40+		ND	10	5		
05136	Total Carbon Chain Rang		ND	10	5		
03052	TPH (as Diesel)		ND	10	6		
03053	TPH (as Motor Oil)		ND	10	5		

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
00211	Benzo(a)pyrene		12.5	10.515	84.12		

Software Version: 4.1<2F12>

Sample Name : B160288-MB

Time : 2/19/01 04:48 PM

Sample Number: DV9G51AAB

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 10:53 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_006A.RAW

Result File : C:\TC4\DATA_01\219_006A.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_006A.

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Sequence File : C:\TC4\DATA_01\219A.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

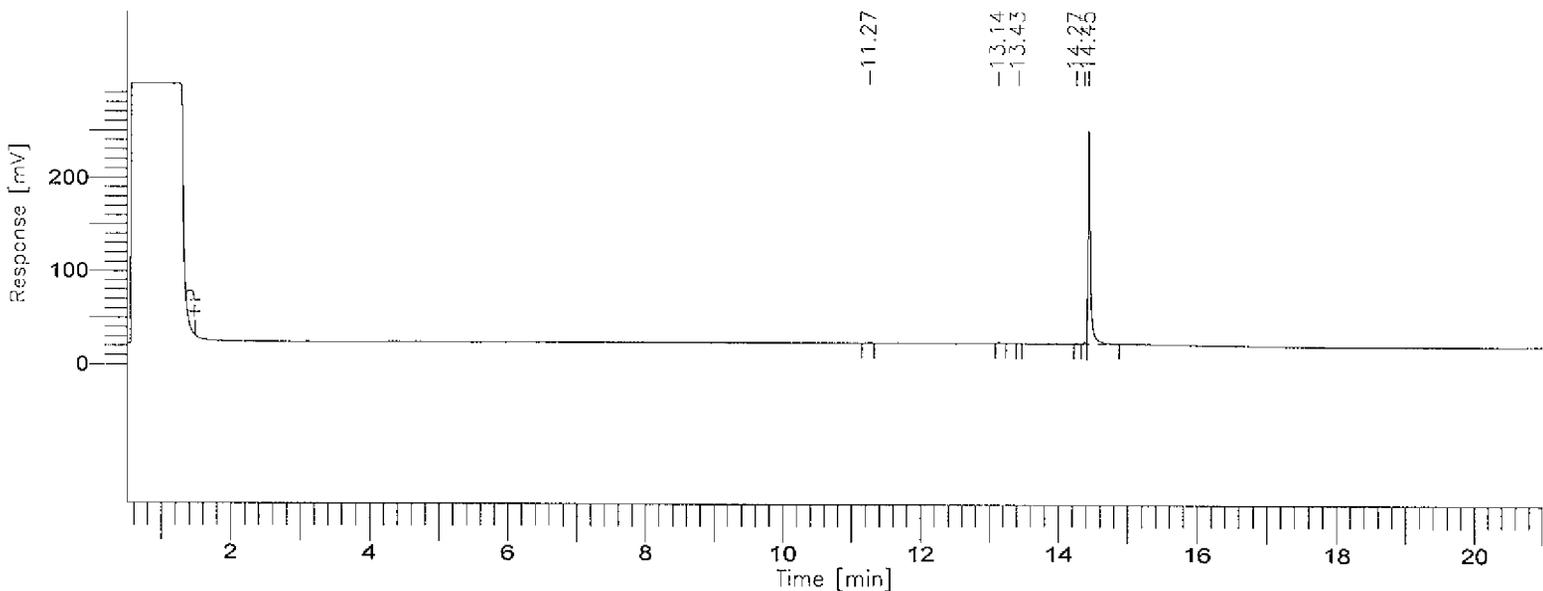
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 6



8015B(TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
3.19	C8-C9	0	0.000	-----	10.0	ND
5.60	C10-C11	0	0.000	-----	10.0	
7.20	C12-C13	0	0.000	-----	10.0	
8.50	C14-C15	0	0.000	-----	10.0	
9.62	C16-C17	0	0.000	-----	10.0	
10.62	C18-C19	0	0.000	-----	10.0	
11.92	C20-C23	616	0.007	-----	10.0	
13.45	C24-C27	4652	0.050	-----	10.0	
14.75	C28-C31-14457	495674	0.1560	-----	10.0	
15.87	C32-C35	0	0.000	-----	10.0	
16.95	C36-C39	0	0.000	-----	10.0	
19.25	C40+	0	0.000	-----	10.0	
		500942	5.408			
		19725	0.214			

Group Report For : C8-C9

No peaks available to report

$$C_{28} \rightarrow C_{31} - 495674 - 481217 = 14457$$

Group Report For : C10-C11

No peaks available to report

Group Report For : C12-C13

No peaks available to report

Group Report For : C14-C15

No peaks available to report

Group Report For : C16-C17

No peaks available to report

Group Report For : C18-C19

No peaks available to report

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.27		616	0.000	-----	10.0	
		616	0.000			

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
13.14		3287	0.001	-----	10.0	
13.43		1365	0.000	-----	10.0	
		4652	0.001			

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.27		808	0.000	-----	10.0	
14.38		3669	0.001	-----	10.0	
14.45		491197	0.123	-----	10.0	
		495674	0.124			

Group Report For : C32-C35

No peaks available to report

Group Report For : C36-C39

No peaks available to report

Group Report For : C40+

No peaks available to report

Missing Component Report

Component	Expected Retention (Calibration File)
-----------	---------------------------------------

All components were found

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STL - LOS ANGELES
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Report stored in ASCII file: C:\TC4\DATA_01\219_006A.TX0

Software Version: 4.1<2F12>

Sample Name : B160288-MB

Time : 2/19/01 11:14 AM

Sample Number: DV9G51AAB

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 10:53 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_006.RAW

Result File : C:\TC4\DATA_01\219_006.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_006.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

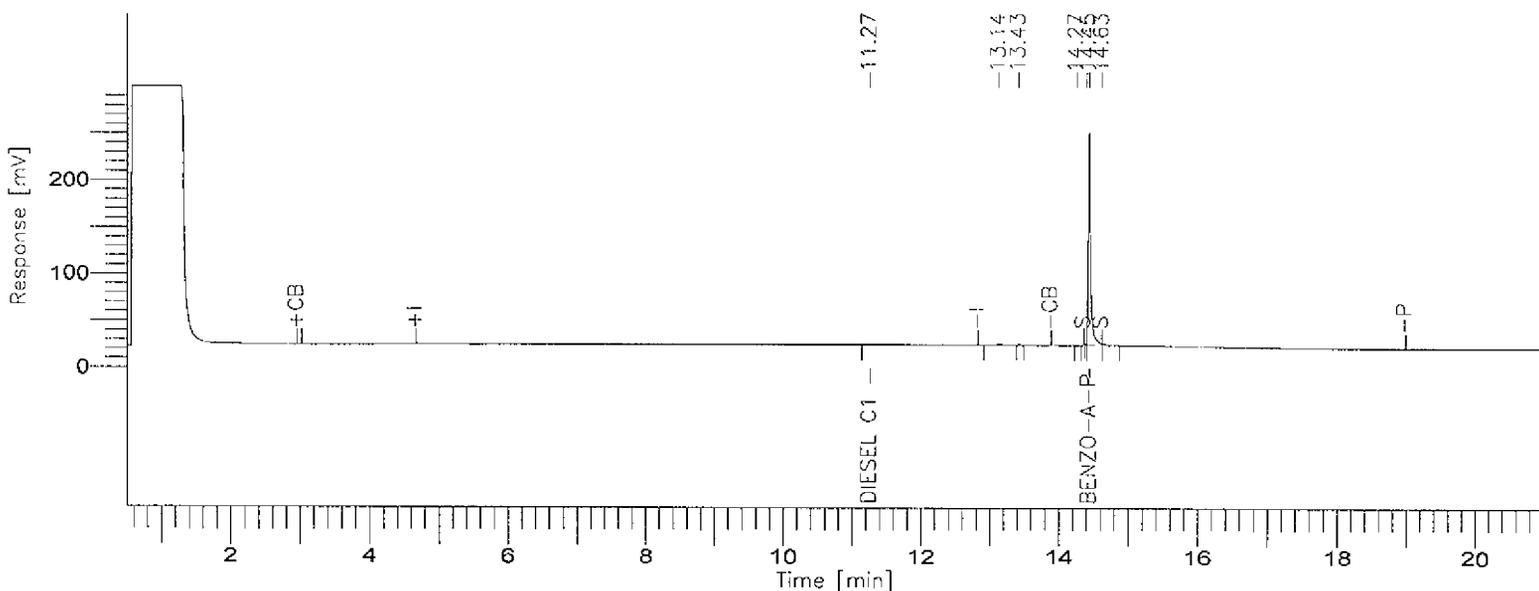
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 7



8015B(TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.27	DIESEL C10-C24	6582	0.160	-----	10.0	
14.45	BENZO-A-PYRENE	481217	10.515	84.1	10.0	
		487799	10.675			

=====
STL - LOS ANGELES
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Report stored in ASCII file: C:\TC4\DATA_01\219_006.TX0

PDE120S
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:32

Lot/Sample: E1B160000-422C INTRA-LAB CHECK TICs.....: N Report Results: Y
 WO#.....: DV9G5-1-AC Est. Results: Sig Fig Alg...: A
 SAC.....: XX A 0B KI 01 Dry Weight...: Upload.....: Y
 Method....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
 Inject Time...: 11:23 Inject Vol: 1.0 Units: uL
 Analyst.....: 356074 Elvie Concepcion
 Dil Factor: 1.00 Instr File: 219_007
 Instr ID: G01 Column: RTX-1 ID: .53
 Sampling date.....: 2/15/01
 Leach Date.....: 0/00/00
 Leach Batch.....:
 Buffer Type.....:
 Leach Weight.....: .0
 Leach Volume.....: 0 Units:
 Entered by.....: CONCEPT 1/02/16 16:37:50
 Prep Comments.....:
 Analysis Comments...:
 Result Units.....: mg/kg

Prep Date.....: 2/16/01
 QC Batch.....: 1047422
 MS Run Number:
 Prep Time.....: 15:00-15:00
 Init Wgt/Vol.: 20 Units: g
 Final Wgt/Vol.: 5.00 Units: mL
 pH Values.: I) .0 1) .0 2) .0
 Extract Solv.: MECL2 Amt...: 8
 Exchange Solv.: Amt...:
 Spike.....: TEPH1577-2DCS/5000PPM/1M
 Surrogate: TEPH1577-1SCS/250PPM/1ML

Total Solids.: .00

SYN#	Analyte	* Exc SPK Code	Spike Amount	Measured Amount	%REC	%RPD	Data Qual	Report Qual
04490	Diesel Range Organics (		250	NA	0	0		NA
04980	Diesel Range Organics		250	NA	0	0		NA
05013	Motor Oil Range Organic		250	NA	0	0		NA
03052	TPH (as Diesel)		250	210.8099	84.32	0		
03053	TPH (as Motor Oil)		250	NA	0	0		NA

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
00211	Benzo(a)pyrene		12.5	11.306	90.4544		NA

Software Version: 4.1<2F12>

Sample Name : B160288-LCS

Time : 2/19/01 11:44 AM

Sample Number: DV9G51ACC

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 11:23 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_007.RAW

Result File : C:\TC4\DATA_01\219_007.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_007.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

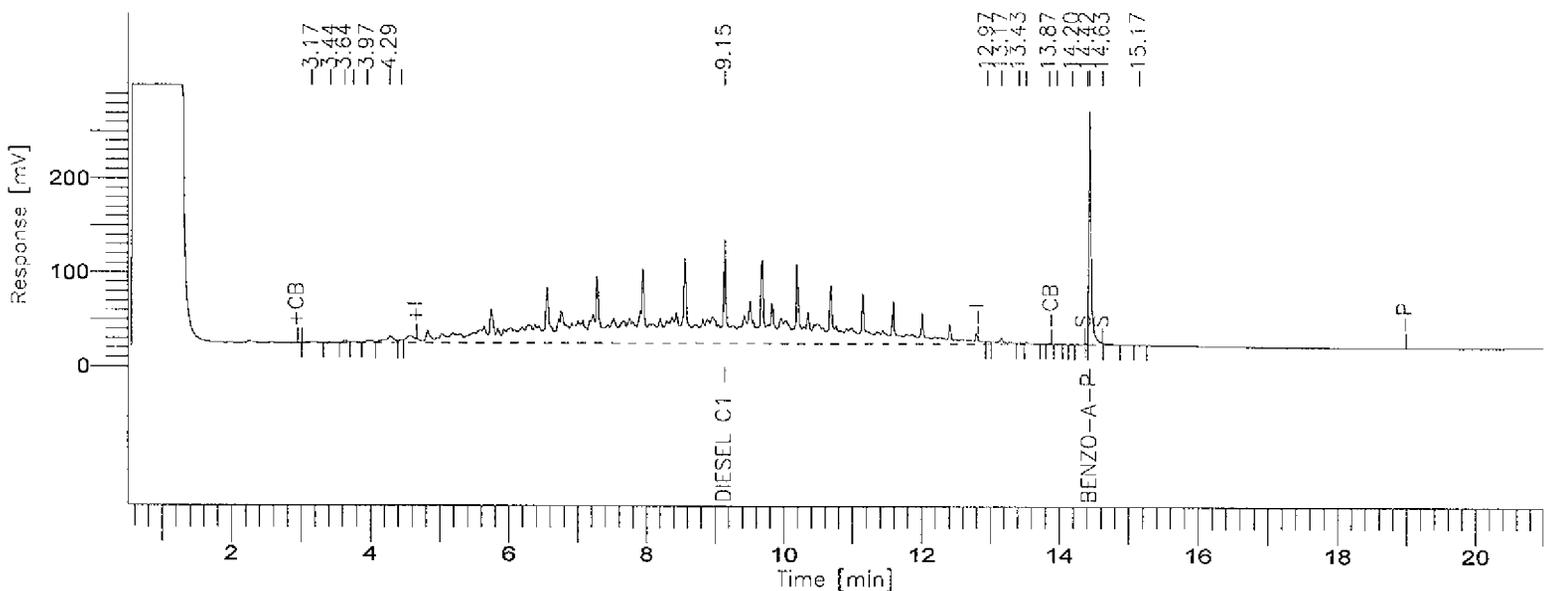
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 19



8015B(TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [μ V·s]	ACTUAL VALUE (PPM)	TRUE VALUE	% RECOVERY
9.150	DIESEL C10-C24	8680107.63	210.8099	250.00	84.32
14.450	BENZO-A-PYRENE	517442.61	11.3068	12.50	90.45
		9197550.24	222.1167	262.50	174.78

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_007.TX0

PDE120
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:33

Lot/Sample: E1B160288-001 SOURCE F_02_14_ TICs.....: N Report Results: Y
 WO#.....: DV9F1-1-AC Est. Results: Y Sig Fig Alg...: A
 SAC.....: XX A 0B KI 01 Dry Weight...: N Upload.....: Y
 Method....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
 Inject Time...: 11:54 Inject Vol: 1.0 Units: uL
 Analyst.....: 356074 Elvie Concepcion
 Dil Factor: 1.00 Instr File: 219_008A
 Instr ID: G01 Column: RTX-1 ID: .53
 Sampling date.....: 2/14/01
 Leach Date.....: 0/00/00
 Leach Batch.....:
 Buffer Type.....:
 Leach Weight.....: .0
 Leach Volume.....: 0 Units:
 Entered by.....: CONCEPCE 1/02/20 8:41:37
 Prep Comments.....:
 Analysis Comments...:
 Result Units.....: mg/kg

Prep Date.....: 2/16/01
 QC Batch.....: 1047422
 MS Run Number: 1047232
 Prep Time.....: 15:00-19:00
 Init Wgt/Vol.: 20 Units: g
 Final Wgt/Vol.: 5.00 Units: mL
 pH Values.: I) .0 1) .0 2) .0
 Extract Solv.: MECL2 Amt...: 80.0
 Exchange Solv.: Amt...: .0
 Spike.....:
 Surrogate: TEPH1577-1SCS/250PPM/1ML
 Total Solids..: .00

SYN#	Analyte	* Exc			MDL	Data Qual	Report Qual
		SPK Code	Result	Limit			
05120	C8-C9		ND	10	5		
05121	C10-C11		ND	10	5		
05122	C12-C13		ND	10	5		
05123	C14-C15		ND	10	5		
05124	C16-C17		ND	10	5		
05125	C18-C19		ND	10	5		
05201	C20-C23		ND	10	5		
05202	C24-C27		5.294	10	5	J	J
05203	C28-C31		5.2245	10	5	J	J
05204	C32-C35		ND	10	5		
05205	C36-C39		ND	10	5		
05132	C40+		ND	10	5		
05136	Total Carbon Chain Rang		25.4675	10	5		

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual

Notes:

J Estimated result. Result is less than RL.

(Continued on next page)

PDE120
Page: 2

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:33

Lot/Sample: E1B160288-001 SOURCE F_02_14_ TICs.....: N Report Results: Y
WO#.....: DV9F1-1-AC Est. Results: Y Sig Fig Alg...: A
SAC.....: XX A 0B KI 01 Dry Weight...: N Upload.....: Y
Method....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

Notes:

Software Version: 4.1<2F12>

Sample Name : B160288-01

Time : 2/19/01 04:50 PM

Sample Number: DV9F11AC

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 11:54 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_008A.RAW

Result File : C:\TC4\DATA_01\219_008A.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_008A.

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A from C:\TC4\DATA_01\219_008A.R

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A from C:\TC4\DATA_01\219_008A.R

Sequence File : C:\TC4\DATA_01\219A.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

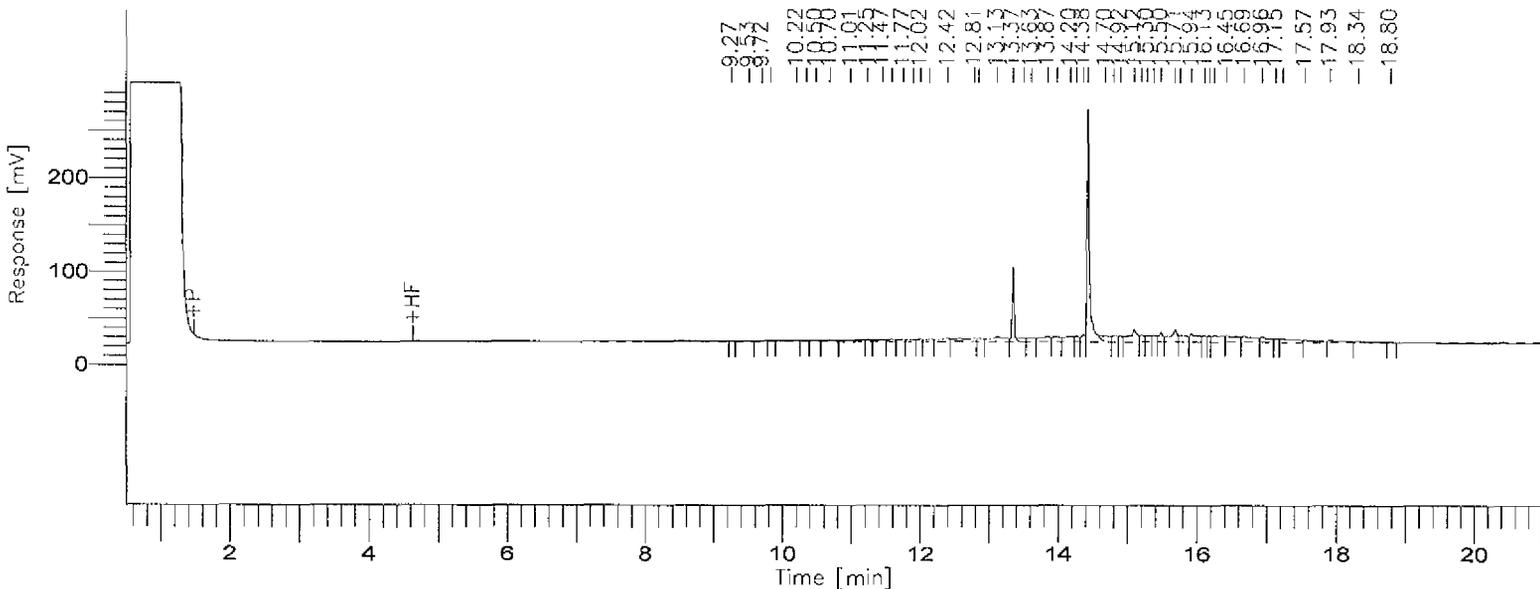
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 52



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
3.19	C8-C9	0	0.000	-----	10.0	
5.60	C10-C11	0	0.000	-----	10.0	
7.20	C12-C13	0	0.000	-----	10.0	
8.50	C14-C15	0	0.000	-----	10.0	
9.62	C16-C17	30279	0.677	-----	10.0	
10.62	C18-C19	106299	2.343	-----	10.0	
11.92	C20-C23	176104	1.933	-----	10.0	
13.45	C24-C27	487931	25.294	-----	10.0	
14.75	C28-C31	973678	6.2245	-----	10.0	
15.87	C32-C35	426551	4.653	-----	10.0	
16.95	C36-C39	292429	3.218	-----	10.0	
19.25	C40+	94857	2.126	-----	10.0	

~~2588128~~ 2.7001 ~~30.753~~
 2098469 6 25.4675

Group Report For : C8-C9

No peaks available to report

$$C_{28} \rightarrow C_{31} = 973678 - 489659 = 484019$$

Group Report For : C10-C11

No peaks available to report

Group Report For : C12-C13

No peaks available to report

Group Report For : C14-C15

No peaks available to report

Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
9.27		3883	0.001	-----	10.0	
9.53		11211	0.003	-----	10.0	
9.72		9294	0.002	-----	10.0	
9.85		5891	0.001	-----	10.0	
		30279	0.008			

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
10.22		19921	0.005	-----	10.0	
10.37		9505	0.002	-----	10.0	
10.50		13154	0.003	-----	10.0	
10.70		23743	0.006	-----	10.0	
11.01		39976	0.010	-----	10.0	
		106299	0.027			

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.25		11557	0.003	-----	10.0	
11.47		22855	0.006	-----	10.0	
11.60		19481	0.005	-----	10.0	
11.77		18120	0.005	-----	10.0	
11.91		21813	0.005	-----	10.0	
12.02		15464	0.004	-----	10.0	
12.15		26814	0.007	-----	10.0	
12.42		40000	0.010	-----	10.0	
		176104	0.044			

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
---------------	-------------------	--	------------------------	---------------	---------------------	----

12.81	69824	0.017	-----	10.0
12.87	22692	0.006	-----	10.0
13.13	84099	0.021	-----	10.0
13.37	147853	0.037	-----	10.0
13.53	29293	0.007	-----	10.0
13.63	34763	0.009	-----	10.0
13.87	56983	0.014	-----	10.0
14.00	42424	0.011	-----	10.0

	487931	0.122		

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.20		55505	0.014	-----	10.0	
14.28		27511	0.007	-----	10.0	
14.38		31867	0.008	-----	10.0	
14.45		563068	0.141	-----	10.0	
14.70		57233	0.014	-----	10.0	
14.82		38603	0.010	-----	10.0	
14.92		25290	0.006	-----	10.0	
15.12		106170	0.027	-----	10.0	
15.22		32058	0.008	-----	10.0	
15.30		36373	0.009	-----	10.0	

		973678	0.243			

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.40		31978	0.008	-----	10.0	
15.50		43321	0.011	-----	10.0	
15.70		91117	0.023	-----	10.0	
15.78		58472	0.015	-----	10.0	
15.94		75166	0.019	-----	10.0	
16.13		31970	0.008	-----	10.0	
16.20		19932	0.005	-----	10.0	
16.27		74595	0.019	-----	10.0	

		426551	0.107			

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
---------------	-------------------	--	------------------------	---------------	---------------------	----

16.45	81592	0.020	-----	10.0
16.69	81406	0.020	-----	10.0
16.96	51543	0.013	-----	10.0
17.15	17915	0.004	-----	10.0
17.25	59973	0.015	-----	10.0
292429		0.073		

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
17.57		42646	0.011	-----	10.0	
17.93		30482	0.008	-----	10.0	
18.34		18969	0.005	-----	10.0	
18.80		2760	0.001	-----	10.0	
94857		0.024				

Missing Component Report

Component Expected Retention (Calibration File)

 All components were found

=====
 STL - LOS ANGELES
 =====

Report stored in ASCII file: C:\TC4\DATA_01\219_008A.TX0

Software Version: 4.1<2F12>

Sample Name : B160288-01

Time : 2/19/01 12:14 PM

Sample Number: DV9F11AC

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 11:54 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_008.RAW

Result File : C:\TC4\DATA_01\219_008.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_008.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

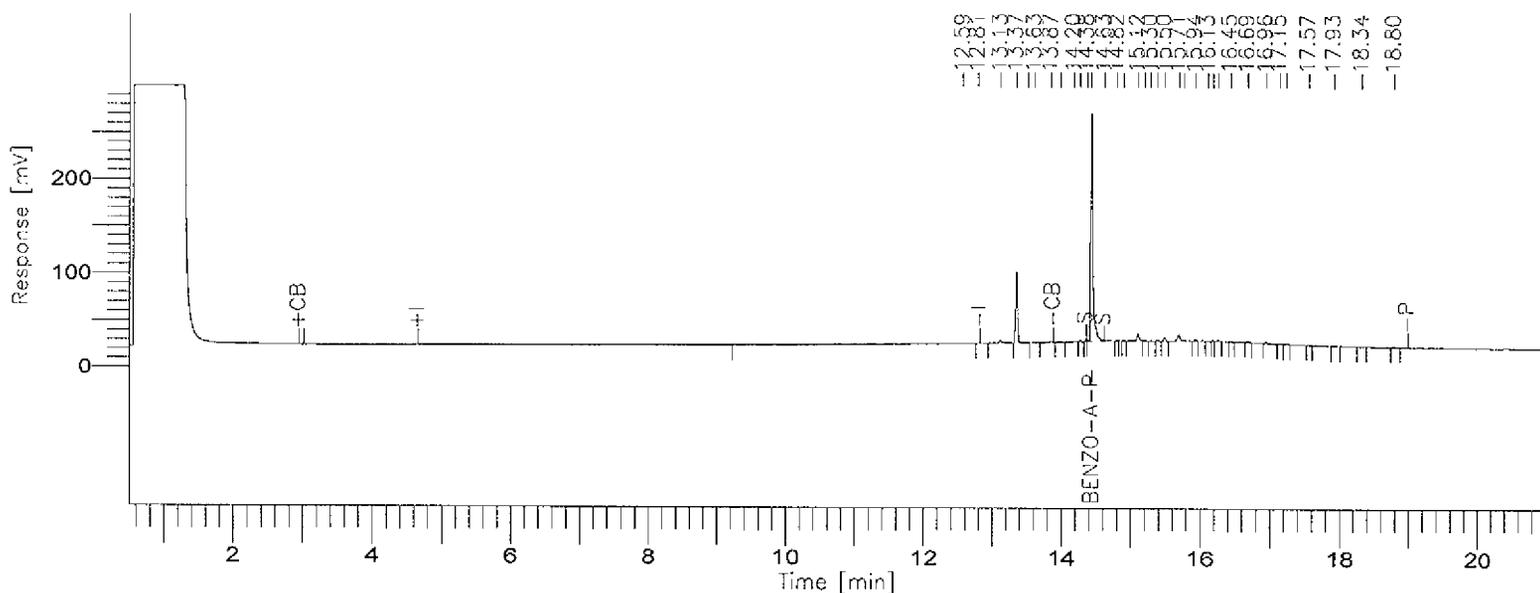
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 35



8015B (TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURREC	REP. LIMIT mg/kg	FN
9.68	DIESEL C10-C24	0	0.000	-----	10.0	
14.45	BENZO-A-PYRENE	489659	10.700	85.6	10.0	
		489659	10.700			

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_008.TX0

PDE120
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:33

Lot/Sample: E1B160288-002 SOURCE G_02_14_ TICs.....: N Report Results: Y
WO#.....: DV9F9-1-AE Est. Results: Y Sig Fig Alg...: A
SAC.....: XX A 0B KI 01 Dry Weight...: N Upload.....: Y
Method....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
Inject Time...: 12:24 Inject Vol: 1.0 Units: uL
Analyst.....: 356074 Elvie Concepcion
Dil Factor: 1.00 Instr File: 219_009A
Instr ID: G01 Column: RTX-1 ID: .53
Sampling date.....: 2/14/01
Leach Date.....: 0/00/00
Leach Batch.....:
Buffer Type.....:
Leach Weight.....: .0
Leach Volume.....: 0 Units:
Entered by.....: CONCEPCE 1/02/20 8:42:29
Prep Comments.....:
Analysis Comments...:
Result Units.....: mg/kg

Prep Date.....: 2/16/01
QC Batch.....: 1047422
MS Run Number: 1047232
Prep Time.....: 15:00-19:00
Init Wgt/Vol.: 20 Units: g
Final Wgt/Vol.: 5.00 Units: mL
pH Values.: I) .0 1) .0 2) .0
Extract Solv.: MECL2 Amt...: 80.0
Exchange Solv: Amt...: .0
Spike.....:
Surrogate: TEPH1577-1SCS/250PPM/1ML
Total Solids..: .00

SYN#	Analyte	* Exc	SPK Code	Result	Limit	MDL	Data Qual	Report Qual
05120	C8-C9			ND	10	5		
05121	C10-C11			ND	10	5		
05122	C12-C13			ND	10	5		
05123	C14-C15			ND	10	5		
05124	C16-C17			ND	10	5		
05125	C18-C19			5.180	10	5	J	J
05201	C20-C23			9.062	10	5	J	J
05202	C24-C27			18.552	10	5		
05203	C28-C31			43.5288	10	5		
05204	C32-C35			49.360	10	5		
05205	C36-C39			51.011	10	5		
05132	C40+			121.454	10	5		
05136	Total Carbon Chain Rang			306.6728	10	5		

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
00211	Benzo(a)pyrene		12.5	9.974	79.792		

Notes:
J Estimated result. Result is less than RL.

(Continued on next page)

PDE120
Page: 2

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:33

Lot/Sample: E1B160288-002	SOURCE G_02_14_	TICs.....: N	Report Results: Y
WO#.....: DV9F9-1-AE		Est. Results: Y	Sig Fig Alg...: A
SAC.....: XX A 0B KI 01		Dry Weight...: N	Upload.....: Y
Method.....: SOLID / Hydrocarbons, Extractable Petroleum (8015B)			SW846 / 8015B

Notes:

Software Version: 4.1<2F12>

Sample Name : B160288-02

Time : 2/19/01 04:51 PM

Sample Number: DV9F91AE

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 12:24 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_009A.RAW

Result File : C:\TC4\DATA_01\219_009A.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_009A.

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A from C:\TC4\DATA_01\219_009A.R

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A from C:\TC4\DATA_01\219_009A.R

Sequence File : C:\TC4\DATA_01\219A.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

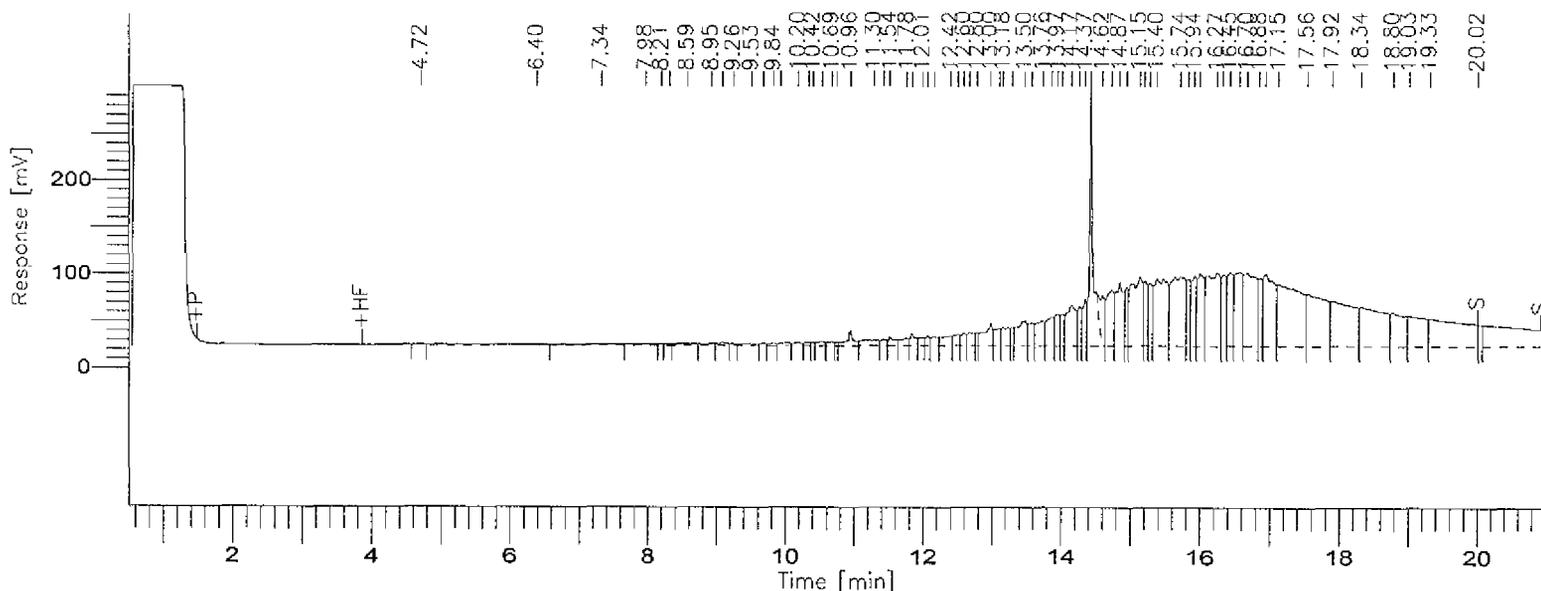
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 75



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
3.19	C8-C9	0	0.000	-----	10.0	
5.60	C10-C11	71547	1.671	-----	10.0	
7.20	C12-C13	61035	1.397	-----	10.0	
8.50	C14-C15	109408	2.476	-----	10.0	
9.62	C16-C17	133329	2.981	-----	10.0	
10.62	C18-C19	235065	5.180	-----	10.0	
11.92	C20-C23	825453	9.062	-----	10.0	
13.45	C24-C27	1710065	18.552	-----	10.0	
14.75	C28-C31	4489136 $43,5288$	48.456	-----	10.0	
15.87	C32-C35	4525052	49.360	-----	10.0	
16.95	C36-C39	4635460	51.011	-----	10.0	
19.25	C40+	5418854	$2-20-21$ 121.454	-----	10.0	

~~22214404~~ 311.600
~~21757954~~ 306.6728

Group Report For : C8-C9

No peaks available to report $C_{28} - C_{31} = 4489136 - 456450 = 4032686$

Group Report For : C10-C11

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
4.72		5185	0.001	-----	10.0	
6.40		66362	0.017	-----	10.0	
		71547	0.018			

Group Report For : C12-C13

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
7.33		61035	0.015	-----	10.0	

61035 0.015

Group Report For : C14-C15

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURREC	REP. LIMIT mg/kg	FN
7.98		38185	0.010	-----	10.0	
8.21		6824	0.002	-----	10.0	
8.33		8855	0.002	-----	10.0	
8.59		33406	0.008	-----	10.0	
8.94		22138	0.006	-----	10.0	
		109408	0.027			

Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURREC	REP. LIMIT mg/kg	FN
9.10		24352	0.006	-----	10.0	
9.26		11535	0.003	-----	10.0	
9.53		33913	0.008	-----	10.0	
9.70		14069	0.004	-----	10.0	
9.84		19051	0.005	-----	10.0	
9.95		30409	0.008	-----	10.0	
		133329	0.033			

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURREC	REP. LIMIT mg/kg	FN
10.20		28018	0.007	-----	10.0	
10.36		17762	0.004	-----	10.0	
10.42		12872	0.003	-----	10.0	
10.55		32154	0.008	-----	10.0	
10.69		29602	0.007	-----	10.0	
10.77		10535	0.003	-----	10.0	
10.96		104122	0.026	-----	10.0	
		235065	0.059			

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURREC	REP. LIMIT mg/kg	FN
---------------	-------------------	--	------------------------	----------	---------------------	----

11.30	95107	0.024	-----	10.0
11.45	38995	0.010	-----	10.0
11.53	58542	0.015	-----	10.0
11.78	67131	0.017	-----	10.0
11.85	63560	0.016	-----	10.0
12.01	48455	0.012	-----	10.0
12.08	44222	0.011	-----	10.0
12.18	71179	0.018	-----	10.0
12.42	102708	0.026	-----	10.0
12.52	74963	0.019	-----	10.0
12.60	70259	0.018	-----	10.0
12.69	90332	0.023	-----	10.0
825453		0.206		

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
12.80		38966	0.010	-----	10.0	
13.00		204181	0.051	-----	10.0	
13.13		120936	0.030	-----	10.0	
13.18		146433	0.037	-----	10.0	
13.31		55954	0.014	-----	10.0	
13.50		265856	0.066	-----	10.0	
13.60		140864	0.035	-----	10.0	
13.76		221227	0.055	-----	10.0	
13.89		225046	0.056	-----	10.0	
13.97		160449	0.040	-----	10.0	
14.04		130153	0.033	-----	10.0	
1710065		0.428				

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.17		411312	0.103	-----	10.0	
14.29		158813	0.040	-----	10.0	
14.37		175696	0.044	-----	10.0	
14.45		971461	0.243	-----	10.0	
14.62		258152	0.065	-----	10.0	
14.75		440721	0.110	-----	10.0	
14.86		526851	0.132	-----	10.0	
14.97		181096	0.045	-----	10.0	
15.15		844759	0.211	-----	10.0	
15.23		263174	0.066	-----	10.0	

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.30		257101	0.064	-----	10.0	
		4489136	1.122			

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.40		933075	0.233	-----	10.0	
15.74		1052476	0.263	-----	10.0	
15.86		276464	0.069	-----	10.0	
15.94		353054	0.088	-----	10.0	
16.02		511799	0.128	-----	10.0	
16.27		1029521	0.257	-----	10.0	
16.35		368663	0.092	-----	10.0	
		4525052	1.131			

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
16.45		452875	0.113	-----	10.0	
16.59		610128	0.153	-----	10.0	
16.70		958202	0.240	-----	10.0	
16.88		283145	0.071	-----	10.0	
16.96		832896	0.208	-----	10.0	
17.15		1498214	0.375	-----	10.0	
		4635460	1.159			

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
17.56		1065744	0.266	-----	10.0	
17.92		1095759	0.274	-----	10.0	
18.34		1019735	0.255	-----	10.0	
18.80		497973	0.124	-----	10.0	
19.03		542899	0.136	-----	10.0	
19.33		1106369	0.277	-----	10.0	
20.02		90375	0.023	-----	10.0	

5418854

1.355

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_009A.TX0

Software Version: 4.1<2F12>

Sample Name : B160288-02

Time : 2/19/01 04:45 PM

Sample Number: DV9F91AE

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 12:24 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_009.RAW

Result File : C:\TC4\DATA_01\219_009.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_009.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_009.R

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_009.R

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2

User3 :

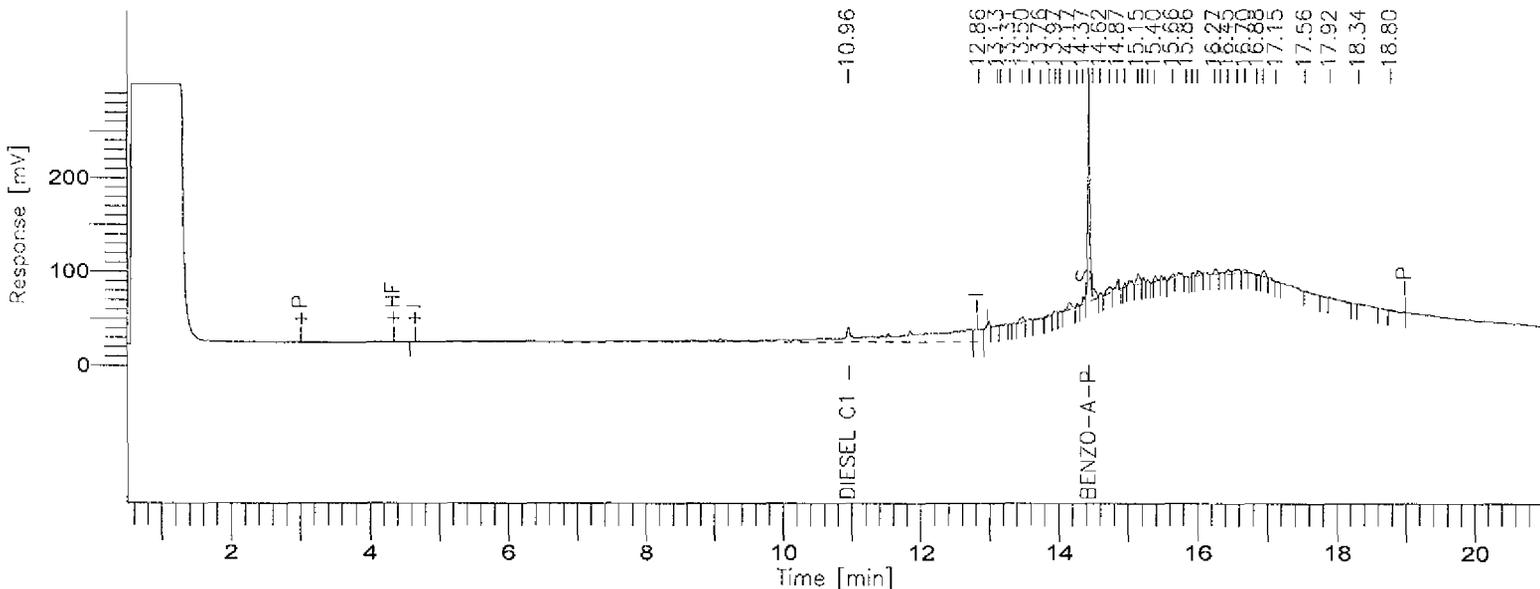
User4

User5 :

Instrument Conditions:

MANUAL INTEGRATION CODES	
1 Poor Peak Shape	5 Column Bleed
2 Poor Peak Resolution	6 Instrument Noise
3 Peak Not Integrated	7 Poor Baseline
4 Sample Matrix Interf.	8 Other
Initials <u>B</u>	Date: <u>2-20-01</u>

Total number of peaks detected: 40



8015B (TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURREC	REP. LIMIT mg/kg	FN
10.96	DIESEL C10-C24	1328308	32.260	-----	10.0	
14.45	BENZO-A-PYRENE	456450	9.974	79.8	10.0	
		1784758	42.234			

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_009.TX0

Software Version: 4.1<2F12>

Sample Name : B160288-02

Time : 2/19/01 12:45 PM

Sample Number: DV9F91AE

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 12:24 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_009.RAW

Result File : C:\TC4\DATA_01\219_009.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_009.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

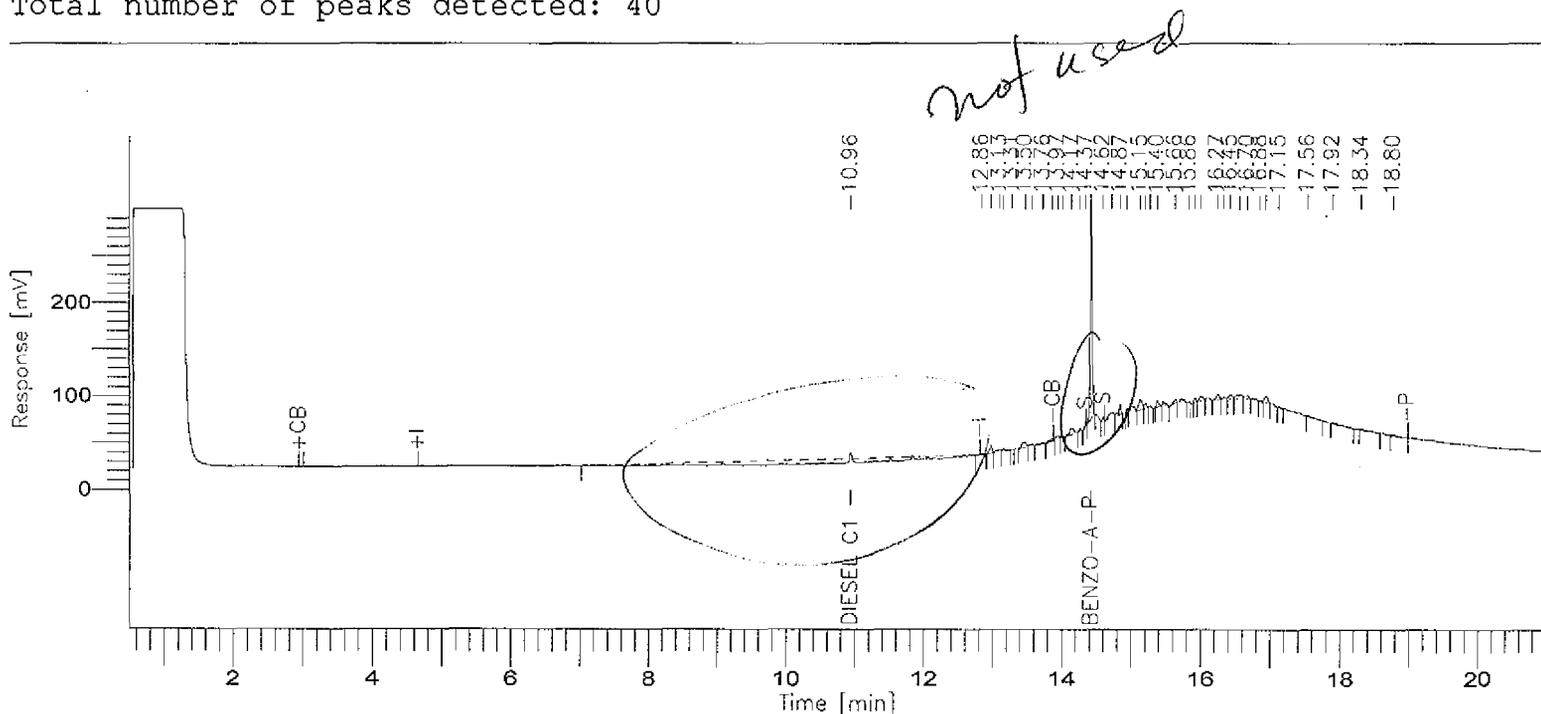
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 40



8015B(TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
10.96	DIESEL C10-C24	923474	22.428	-----	10.0	
14.45	BENZO-A-PYRENE	412544	9.015	72.1	10.0	
		1336018	31.443			

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_009.TX0

PDE120
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:32

Lot/Sample: E1B150298-022 DP1394_SSC04603 TICs.....: N Report Results: Y
 WO#.....: DV7Q4-1-AA Est. Results: Y Sig Fig Alg...: A
 SAC.....: XX A 0B KI 01 Dry Weight...: N Upload.....: Y
 Method....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
 Inject Time...: 13:24 Inject Vol: 1.0 Units: uL
 Analyst.....: 356074 / Elvie Concepcion
 Dil Factor: 1.00 Instr File: 219_011A
 Instr ID: G01 Column: RTX-1 ID: .53
 Sampling date.....: 2/15/01
 Leach Date.....: 0/00/00
 Leach Batch.....:
 Buffer Type.....:
 Leach Weight.....: .0
 Leach Volume.....: 0 Units:
 Entered by.....: CONCEPCE 1/02/20 8:39:12
 Prep Comments.....:
 Analysis Comments...:
 Result Units.....: mg/kg

Prep Date.....: 2/16/01
 QC Batch.....: 1047422
 MS Run Number: 1047232
 Prep Time.....: 15:00-19:00
 Init Wgt/Vol.: 20 Units: g
 Final Wgt/Vol.: 5.00 Units: mL
 pH Values.: I) .0 1) .0 2) .0
 Extract Solv.: MECL2 Amt...: 80.0
 Exchange Solv: Amt...: .0
 Spike.....:
 Surrogate: TEPH1577-1SCS/250PPM/1ML
 Total Solids..: .00

SYN#	Analyte	* Exc	SPK Code	Result	Limit	MDL	Data Qual	Report Qual
04490	Diesel Range Organics (	*		ND				
05120	C8-C9			ND	10	5		
05121	C10-C11			ND	10	5		
05122	C12-C13			ND	10	5		
05123	C14-C15			ND	10	5		
05124	C16-C17			ND	10	5		
05125	C18-C19			ND	10	5		
05201	C20-C23			ND	10	5		
05202	C24-C27			ND	10	5		
05203	C28-C31			ND	10	5		
05204	C32-C35			ND	10	5		
05205	C36-C39			ND	10	5		
05132	C40+			ND	10	5		
05136	Total Carbon Chain Rang			ND	10	5		
04980	Diesel Range Organics	*		ND	10	6		
05013	Motor Oil Range Organic	*		ND	10	5		
03052	TPH (as Diesel)	*		ND	10	6		
03053	TPH (as Motor Oil)	*		ND	10	5		

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
------	--------------------	----------	--------------	-----------------	------------------	-----------	-------------

(Continued on next page)

PDE120
Page: 2

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:32

Lot/Sample: E1B150298-022 DP1394_SSC04603 TICs.....: N Report Results: Y
WO#.....: DV7Q4-1-AA Est. Results: Y Sig Fig Alg...: A
SAC.....: XX A 0B KI 01 Dry Weight...: N Upload.....: Y
Method....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

<u>SYN#</u>	<u>Surrogate Recovery</u>	<u>Exc Spike</u>	<u>Measured</u>	<u>Percent</u>	<u>Data</u>	<u>Report</u>
		<u>Code</u>	<u>Amount</u>	<u>Amount</u>	<u>Recovery</u>	<u>Qual</u>
00211	Benzo (a) pyrene		12.5	9.709	77.672	

Software Version: 4.1<2F12>

Sample Name : B150298-22

Time : 2/19/01 04:49 PM

Sample Number: DV7Q41AA

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 01:24 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_011A.RAW

Result File : C:\TC4\DATA_01\219_011A.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_011A.

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Sequence File : C:\TC4\DATA_01\219A.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

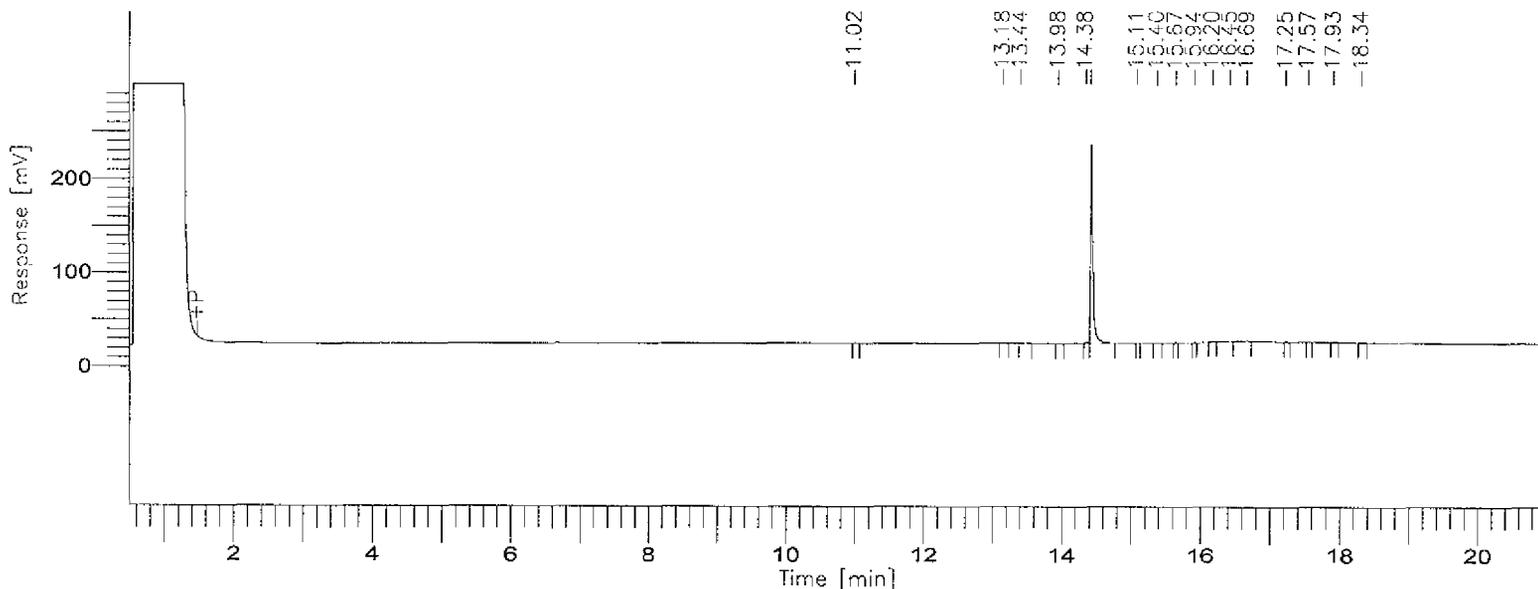
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 17



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURREC	REP. LIMIT mg/kg	FN
3.19	C8-C9	0	0.000	-----	10.0	
5.60	C10-C11	0	0.000	-----	10.0	
7.20	C12-C13	0	0.000	-----	10.0	
8.50	C14-C15	0	0.000	-----	10.0	
9.62	C16-C17	0	0.000	-----	10.0	
10.62	C18-C19	708	0.016	-----	10.0	
11.92	C20-C23	0	0.000	-----	10.0	
13.45	C24-C27	2854	0.031	-----	10.0	
14.75	C28-C31 - 9385	453729	0.1013	4.898	10.0	
15.87	C32-C35	2695	0.029	-----	10.0	
16.95	C36-C39	8946	0.098	-----	10.0	
19.25	C40+	1770	0.040	-----	10.0	
		470701		5.112		
		26357		0.3153		

Group Report For : C8-C9

No peaks available to report

$$C_{28} \rightarrow C_{31} = 453729 - 444344 = 9385$$

Group Report For : C10-C11

No peaks available to report

Group Report For : C12-C13

No peaks available to report

Group Report For : C14-C15

No peaks available to report

Group Report For : C16-C17

No peaks available to report

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.02		708	0.000	-----	10.0	
		708	0.000			

Group Report For : C20-C23

No peaks available to report

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
13.18		666	0.000	-----	10.0	
13.43		1621	0.000	-----	10.0	
13.98		566	0.000	-----	10.0	
		2854	0.001			

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.38		3339	0.001	-----	10.0	
14.45		449983	0.112	-----	10.0	
15.11		407	0.000	-----	10.0	
		453729	0.113			

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.40		743	0.000	-----	10.0	
15.67		512	0.000	-----	10.0	
15.94		544	0.000	-----	10.0	
16.20		896	0.000	-----	10.0	
		2695	0.001			

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
16.45		3653	0.001	-----	10.0	
16.69		4730	0.001	-----	10.0	
17.25		563	0.000	-----	10.0	
		8946	0.002			

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
17.57		632	0.000	-----	10.0	
17.93		551	0.000	-----	10.0	
18.34		587	0.000	-----	10.0	
		1770	0.000			

Missing Component Report

Component Expected Retention (Calibration File)

 All components were found

=====
 STL - LOS ANGELES
 =====

Report stored in ASCII file: C:\TC4\DATA_01\219_011A.TX0

Software Version: 4.1<2F12>

Sample Name : B150298-22

Time : 2/19/01 01:45 PM

Sample Number: DV7Q41AA

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 01:24 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_011.RAW

Result File : C:\TC4\DATA_01\219_011.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_011.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

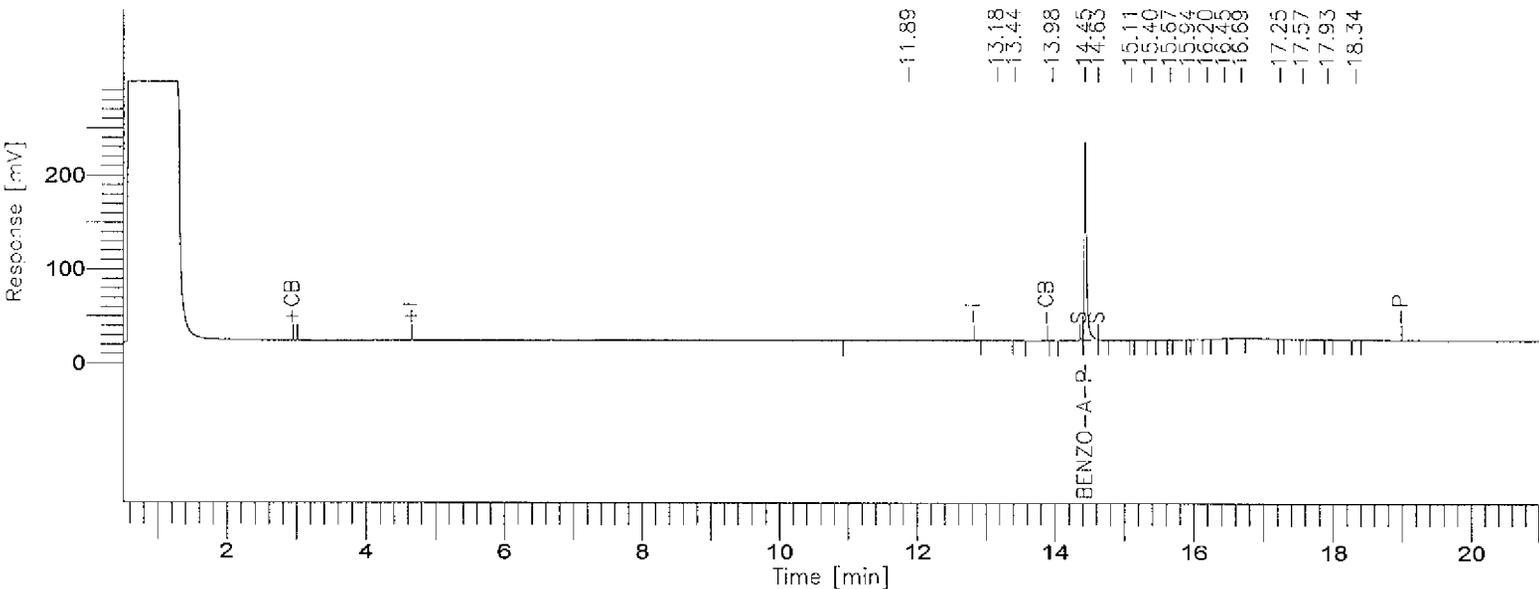
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 17



8015B(TEPH)

=====
 GC01/FID: RTX-1
 =====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURREC	REP. LIMIT mg/kg	FN
9.68	DIESEL C10-C24	0	0.000	-----	10.0	
14.45	BENZO-A-PYRENE	444344	9.709	77.7	10.0	
		444344	9.709			

=====
 STL - LOS ANGELES
 =====

Report stored in ASCII file: C:\TC4\DATA_01\219_011.TX0

Lot/Sample: E1B150298-022S DP1394_SSC04603 TICs.....: N Report Results: Y
 WO#.....: DV7Q4-1-AE Est. Results: Sig Fig Alg...: A
 SAC.....: XX A 0B KI 01 Dry Weight...: Upload.....: Y
 Method....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01

Inject Time...: 13:54 Inject Vol: 1.0 Units: uL
 Analyst.....: 356074 Elvie Concepcion
 Dil Factor: 1.00 Instr File: 219_012
 Instr ID: G01 Column: RTX-1 ID: .53
 Sampling date.....: 2/15/01
 Leach Date.....: 0/00/00
 Leach Batch.....:
 Buffer Type.....:
 Leach Weight.....: .0
 Leach Volume.....: 0 Units:
 Entered by.....: CONCEPCE 1/02/16 16:37:51
 Prep Comments.....:
 Analysis Comments...:
 Result Units.....: mg/kg

Prep Date.....: 2/16/01
 QC Batch.....: 1047422
 MS Run Number: 1047232
 Prep Time.....: 15:00-15:00
 Init Wgt/Vol.: 20 Units: g
 Final Wgt/Vol: 5.00 Units: mL
 pH Values.: I) .0 1) .0 2) .0
 Extract Solv.: MECL2 Amt...: 8
 Exchange Solv: Amt...:
 Spike.....: TEPH1577-2DCS/5000PPM/1M
 Surrogate: TEPH1577-1SCS/250PPM/1ML

Total Solids.: .00

SYN#	Analyte	* Exc SPK	Spike Code	Amount	Measured Amount	%REC	%RPD	Data Qual	Report Qual
04490	Diesel Range Organics (Sample amount: ND			250	NA	0	0		NA
04980	Diesel Range Organics Sample amount: ND			250	NA	0	0		NA
05013	Motor Oil Range Organic Sample amount: ND			250	NA	0	0		NA
03052	TPH (as Diesel) Sample amount: ND			250	190.4568	76.18	6.69		
03053	TPH (as Motor Oil) Sample amount: ND			250	NA	0	0		NA

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
00211	Benzo(a)pyrene		12.5	9.8538	78.8304		NA

Software Version: 4.1<2F12>

Sample Name : B150298-22 MS

Time : 2/19/01 02:15 PM

Sample Number: DV7Q41AES

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 01:54 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_012.RAW

Result File : C:\TC4\DATA_01\219_012.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_012.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

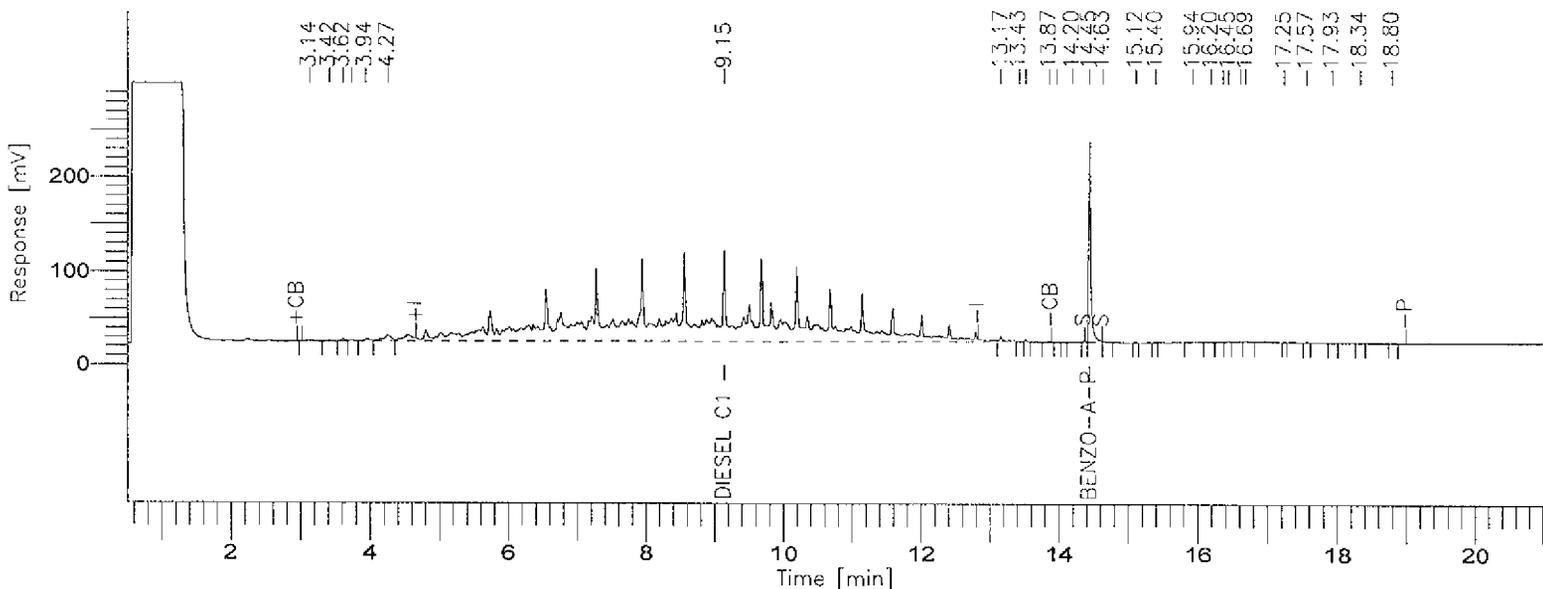
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 28



8015B(TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% RECOVERY
9.149	DIESEL C10-C24	7842068.27	190.4568	250.00	76.18
14.450	BENZO-A-PYRENE	450945.84	9.8538	12.50	78.83
		8293014.11	200.3106	262.50	155.01

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_012.TX0

FDE120S
Page: 1

Severn Trent Laboratories, Inc.
Data Review

Date 2/20/2001
Time 7:42:33

Lot/Sample: E1B150298-022D DP1394_SSC04603 TICs.....: N Report Results: Y
WO#.....: DV7Q4-1-AF Est. Results: Sig Fig Alg...: A
SAC.....: XX A 0B KI 01 Dry Weight...: Upload.....: Y
Method.....: SOLID / Hydrocarbons, Extractable Petroleum (8015B) / SW846 / 8015B

Analysis Date: 2/19/01
Inject Time...: 14:24 Inject Vol: 1.0 Units: uL
Analyst.....: 356074 Elvie Concepcion
Dil Factor: 1.00 Instr File: 219_013
Instr ID: G01 Column: RTX-1 ID: .53
Sampling date.....: 2/15/01
Leach Date.....: 0/00/00
Leach Batch.....:
Buffer Type.....:
Leach Weight.....: .0
Leach Volume.....: 0 Units:
Entered by.....: CONCEPCE 1/02/16 16:37:51
Prep Comments.....:
Analysis Comments...:
Result Units.....: mg/kg

Prep Date.....: 2/16/01
QC Batch.....: 1047422
MS Run Number: 1047232
Prep Time.....: 15:00-15:00
Init Wgt/Vol.: 20 Units: g
Final Wgt/Vol.: 5.00 Units: mL
pH Values.: I) .0 1) .0 2) .0
Extract Solv.: MECL2 Amt...: 8
Exchange Solv: Amt...:
Spike.....: TEPH1577-2DCS/5000PPM/1M
Surrogate: TEPH1577-1SCS/250PPM/1ML

Total Solids.: .00

SYN#	Analyte	* Exc SPK Code	Spike Amount	Measured Amount	%REC	%RPD	Data Qual	Report Qual
04490	Diesel Range Organics (		250	NA	0	0		NA
	Sample amount: ND							
04980	Diesel Range Organics		250	NA	0	0		NA
	Sample amount: ND							
05013	Motor Oil Range Organic		250	NA	0	0		NA
	Sample amount: ND							
03052	TPH (as Diesel)		250	203.6536	81.46	6.69		
	Sample amount: ND							
03053	TPH (as Motor Oil)		250	NA	0	0		NA
	Sample amount: ND							

SYN#	Surrogate Recovery	Exc Code	Spike Amount	Measured Amount	Percent Recovery	Data Qual	Report Qual
00211	Benzo(a)pyrene		12.5	10.521	84.1688		NA

Software Version: 4.1<2F12>

Sample Name : B150298-22 MSD

Time : 2/19/01 02:45 PM

Sample Number: DV7Q41AFD

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 2/19/01 02:24 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\219_013.RAW

Result File : C:\TC4\DATA_01\219_013.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\219_013.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24

Sequence File : C:\TC4\DATA_01\219.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 5.0000

Divisor : 20.0000

Addend : 0.0000

User1 : TPHDA

User2 :

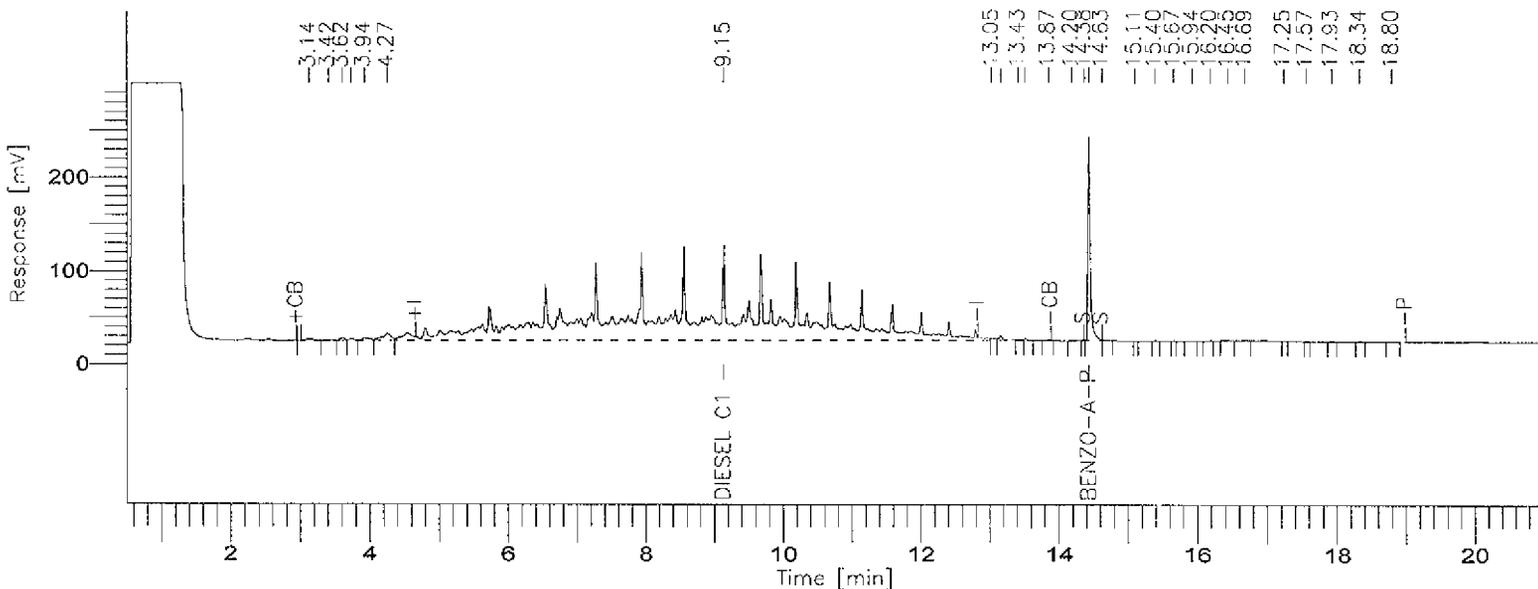
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 28



8015B(TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% RECOVERY
9.149	DIESEL C10-C24	8385446.96	203.6536	250.00	81.46
14.449	BENZO-A-PYRENE	481486.50	10.5211	12.50	84.17
		8866933.46	214.1748	262.50	165.63

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\219_013.TX0

INITIAL CALIBRATION DATA

Date Analyzed: 12-13-00

Instrument ID: GC01
C-chain @ 8 → C40

Turbochrom Method File : C:\TC4\DATA_01\METHODS\C8-C40A.MTH
Created by : ELVIE on : 6/8/00 12:53 PM
Edited by : ec on : 2/2/01 07:32 AM
Description :

Number of Times Edited : 42
Number of Times Calibrated : 604

*Updated 2-2-01
due to minor shift
2-2-01 bz*

Processing Parameters :
Bunch Factor : 1 points
Noise Threshold : 50 μ V
Area Threshold : 200.00 μ V

Peak Separation Criteria
Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria
Peak Height Ratio : 5.000
Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

Baseline Timed Events :
Event #1 - -P at 0.131
Event #2 - +P at 1.500
Event #3 - -P at 23.390

Annotated Replot Parameters :
No replot will be printed

Report Format files :
No report format files given

User Programs :
User Program #1 : C:\TC4\DATA_01\RST_READ.EXE
Command Line : \$RST
Entry Point : Post Analysis
Synchronize : NO

Global Information :
Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : YES
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :
C8-C9

Component Type : Timed Group
 Start Time : 1.682 min End Time : 4.697 min
 Reference Component:
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	106351.00	22915.43	-----	-----	1
2	20.0000	200507.00	42839.62	-----	-----	1
3	30.0000	294508.00	62593.05	-----	-----	1
4	40.0000	394971.00	81707.00	-----	-----	1
5	50.0000	517748.50	108932.83	-----	-----	1

Average Calibration Factor = 10141.325667 (%RSD = 3.41)

C10-C11

Component Type : Timed Group
 Start Time : 4.698 min End Time : 6.497 min
 Reference Component:
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	110984.00	33072.57	-----	-----	1
2	20.0000	212205.00	60818.62	-----	-----	1
3	30.0000	316101.00	88630.88	-----	-----	1
4	40.0000	419573.50	119226.92	-----	-----	1
5	50.0000	539353.00	148270.37	-----	-----	1

Average Calibration Factor = 10704.349500 (%RSD = 2.31)

C12-C13

Component Type : Timed Group
 Start Time : 6.498 min End Time : 7.897 min
 Reference Component:
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	113175.50	44131.93	-----	-----	1
2	20.0000	218489.00	90440.05	-----	-----	1

3	30.0000	323561.00	123593.88	-----	-----	1
4	40.0000	427680.00	172698.00	-----	-----	1
5	50.0000	544146.50	223050.25	-----	-----	1

Average Calibration Factor = 10920.459333 (%RSD = 2.19)

C14-C15

Component Type : Timed Group
 Start Time : 7.898 min End Time : 9.098 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	113894.00	61321.73	-----	-----	1
2	20.0000	222463.50	111349.73	-----	-----	1
3	30.0000	328308.50	150162.57	-----	-----	1
4	40.0000	432459.50	208768.18	-----	-----	1
5	50.0000	548556.00	282755.74	-----	-----	1

Average Calibration Factor = 11047.759833 (%RSD = 2.00)

C16-C17

Component Type : Timed Group
 Start Time : 9.099 min End Time : 10.145 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	115396.00	66988.63	-----	-----	1
2	20.0000	225547.00	124762.57	-----	-----	1
3	30.0000	332490.00	164248.09	-----	-----	1
4	40.0000	437067.76	216063.13	-----	-----	1
5	50.0000	553629.50	299208.29	-----	-----	1

Average Calibration Factor = 11179.846816 (%RSD = 2.12)

C18-C19

Component Type : Timed Group
 Start Time : 10.146 min End Time : 11.099 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000

Value 4: 0.000000

Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	117260.00	66559.74	-----	-----	1
2	20.0000	229842.00	123659.97	-----	-----	1
3	30.0000	335807.50	171182.99	-----	-----	1
4	40.0000	442784.24	237978.09	-----	-----	1
5	50.0000	562070.00	318271.06	-----	-----	1

Average Calibration Factor = 11344.537851 (%RSD = 2.32)

C20-C23

Component Type : Timed Group
Start Time : 11.100 min End Time : 12.747 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :

Value 1: 250.000000

Value 2: 5.000000

Value 3: 0.000000

Value 4: 0.000000

Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	235834.32	132436.75	-----	-----	1
2	20.0000	457578.00	261163.03	-----	-----	1
3	30.0000	677444.00	387848.51	-----	-----	1
4	40.0000	891659.50	506277.99	-----	-----	1
5	50.0000	1126597.00	643753.59	-----	-----	1

Average Calibration Factor = 22773.445149 (%RSD = 2.19)

C24-C27

Component Type : Timed Group
Start Time : 12.748 min End Time : 14.148 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :

Value 1: 250.000000

Value 2: 5.000000

Value 3: 0.000000

Value 4: 0.000000

Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	238424.68	142854.93	-----	-----	1
2	20.0000	463407.50	270439.09	-----	-----	1
3	30.0000	686319.00	391092.15	-----	-----	1
4	40.0000	902089.00	502715.91	-----	-----	1
5	50.0000	1138834.00	629313.83	-----	-----	1

Average Calibration Factor = 23043.809684 (%RSD = 2.16)

C28-C31

Component Type : Timed Group
Start Time : 14.149 min End Time : 15.347 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
Value 1: 250.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	238196.50	145675.07	-----	-----	1
2	20.0000	466551.50	280490.82	-----	-----	1
3	30.0000	688610.00	421220.10	-----	-----	1
4	40.0000	910384.50	546644.25	-----	-----	1
5	50.0000	1147244.50	682996.53	-----	-----	1

Average Calibration Factor = 23161.078833 (%RSD = 1.82)

C32-C35

Component Type : Timed Group
Start Time : 15.348 min End Time : 16.398 min
Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
Value 1: 250.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	233540.50	129460.83	-----	-----	1
2	20.0000	455124.50	254405.44	-----	-----	1
3	30.0000	679757.50	374535.73	-----	-----	1
4	40.0000	911813.00	508608.69	-----	-----	1
5	50.0000	1151451.50	639515.35	-----	-----	1

Average Calibration Factor = 22918.642667 (%RSD = 1.22)

C36-C39

Component Type : Timed Group
Start Time : 16.399 min End Time : 17.498 min
Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
Value 1: 250.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	229689.00	121453.13	-----	-----	1
2	20.0000	437360.50	239161.09	-----	-----	1
3	30.0000	674231.50	358863.12	-----	-----	1
4	40.0000	919536.50	484698.03	-----	-----	1
5	50.0000	1164522.00	622987.54	-----	-----	1

C40+

Component Type : Timed Group
Start Time : 17.499 min End Time : 21.000 min
Reference Component:
Use Average Calibration Factor (Area / Amount)
User Values:

Label :
Value 1: 250.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	112168.50	41329.43	-----	-----	1
2	20.0000	212525.00	80003.96	-----	-----	1
3	30.0000	332368.00	123835.55	-----	-----	1
4	40.0000	453605.00	170135.88	-----	-----	1
5	50.0000	575431.00	221896.03	-----	-----	1

Average Calibration Factor = 11154.155667 (%RSD = 3.00)

Turbochrom Method File : C:\TC4\DATA_01\METHODS\C8-C40A.MTH
Created by : ELVIE on : 6/8/00 12:53 PM
Edited by : ec on : 12/14/00 08:33 AM
Description :

Number of Times Edited : 38
Number of Times Calibrated : 604

GC01 C-chain C8 → C40

12/300

Processing Parameters :
Bunch Factor : 1 points
Noise Threshold : 50 µV
Area Threshold : 200.00 µV

Peak Separation Criteria
Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria
Peak Height Ratio : 5.000
Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

Average Cal factor - ok

Baseline Timed Events :
Event #1 - -P at 0.131
Event #2 - +P at 1.500
Event #3 - -P at 23.390

Annotated Replot Parameters :
No replot will be printed

Report Format files :
No report format files given

User Programs :
User Program #1 : C:\TC4\DATA_01\RST_READ.EXE
Command Line : \$RST
Entry Point : Post Analysis
Synchronize : NO

Global Information :
Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : YES
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :
C8-C9

Component Type : Timed Group
 Start Time : 1.984 min End Time : 4.936 min
 Reference Component:
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	106351.00	22915.43	-----	-----	1
2	20.0000	200507.00	42839.62	-----	-----	1
3	30.0000	294508.00	62593.05	-----	-----	1
4	40.0000	394971.00	81707.00	-----	-----	1
5	50.0000	517748.50	108932.83	-----	-----	1

Average Calibration Factor = 10141.325667 (%RSD = 3.41)

C10-C11

Component Type : Timed Group
 Start Time : 4.937 min End Time : 6.680 min
 Reference Component:
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	110984.00	33072.57	-----	-----	1
2	20.0000	212205.00	60818.62	-----	-----	1
3	30.0000	316101.00	88630.88	-----	-----	1
4	40.0000	419573.50	119226.92	-----	-----	1
5	50.0000	539353.00	148270.37	-----	-----	1

Average Calibration Factor = 10704.349500 (%RSD = 2.31)

C12-C13

Component Type : Timed Group
 Start Time : 6.681 min End Time : 8.064 min
 Reference Component:
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	113175.50	44131.93	-----	-----	1
2	20.0000	218489.00	90440.05	-----	-----	1

3	30.0000	323561.00	123593.88	-----	-----	1
4	40.0000	427680.00	172698.00	-----	-----	1
5	50.0000	544146.50	223050.25	-----	-----	1

Average Calibration Factor = 10920.459333 (%RSD = 2.19) *ok*

C14-C15

Component Type : Timed Group
 Start Time : 8.065 min End Time : 9.247 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	113894.00	61321.73	-----	-----	1
2	20.0000	222463.50	111349.73	-----	-----	1
3	30.0000	328308.50	150162.57	-----	-----	1
4	40.0000	432459.50	208768.18	-----	-----	1
5	50.0000	548556.00	282755.74	-----	-----	1

Average Calibration Factor = 11047.759833 (%RSD = 2.00) *ok*

C16-C17

Component Type : Timed Group
 Start Time : 9.248 min End Time : 10.298 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	115396.00	66988.63	-----	-----	1
2	20.0000	225547.00	124762.57	-----	-----	1
3	30.0000	332490.00	164248.09	-----	-----	1
4	40.0000	437067.76	216063.13	-----	-----	1
5	50.0000	553629.50	299208.29	-----	-----	1

Average Calibration Factor = 11179.846816 (%RSD = 2.12) *ok*

C18-C19

Component Type : Timed Group
 Start Time : 10.299 min End Time : 11.248 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000

Value 4: 0.000000

Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	117260.00	66559.74	-----	-----	1
2	20.0000	229842.00	123659.97	-----	-----	1
3	30.0000	335807.50	171182.99	-----	-----	1
4	40.0000	442784.24	237978.09	-----	-----	1
5	50.0000	562070.00	313271.06	-----	-----	1

Average Calibration Factor = 11344.537851 (%RSD = 2.32) *OK*

C20-C23

Component Type : Timed Group
Start Time : 11.249 min End Time : 12.882 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :

Value 1: 250.000000

Value 2: 5.000000

Value 3: 0.000000

Value 4: 0.000000

Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	235834.32	132436.75	-----	-----	1
2	20.0000	457578.00	261163.03	-----	-----	1
3	30.0000	677444.00	387848.51	-----	-----	1
4	40.0000	891659.50	506277.99	-----	-----	1
5	50.0000	1126597.00	643753.59	-----	-----	1

Average Calibration Factor = 22773.445149 (%RSD = 2.19) *OK*

C24-C27

Component Type : Timed Group
Start Time : 12.883 min End Time : 14.277 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :

Value 1: 250.000000

Value 2: 5.000000

Value 3: 0.000000

Value 4: 0.000000

Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	238424.68	142854.93	-----	-----	1
2	20.0000	463407.50	270439.09	-----	-----	1
3	30.0000	686319.00	391092.15	-----	-----	1
4	40.0000	902089.00	502715.91	-----	-----	1
5	50.0000	1138834.00	629313.83	-----	-----	1

Average Calibration Factor = 23043.809684 (%RSD = 2.16) *OK*

C28-C31

Component Type : Timed Group
Start Time : 14.278 min End Time : 15.464 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
Value 1: 250.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	238196.50	145675.07	-----	-----	1
2	20.0000	466551.50	280490.82	-----	-----	1
3	30.0000	688610.00	421220.10	-----	-----	1
4	40.0000	910384.50	546644.25	-----	-----	1
5	50.0000	1147244.50	682996.53	-----	-----	1

Average Calibration Factor = 23161.078833 (%RSD = 1.82) *ok*

C32-C35

Component Type : Timed Group
Start Time : 15.465 min End Time : 16.514 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
Value 1: 250.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	233540.50	129460.83	-----	-----	1
2	20.0000	455124.50	254405.44	-----	-----	1
3	30.0000	679757.50	374535.73	-----	-----	1
4	40.0000	911813.00	508608.69	-----	-----	1
5	50.0000	1151451.50	639515.35	-----	-----	1

Average Calibration Factor = 22918.642667 (%RSD = 1.22) *ok*

C36-C39

Component Type : Timed Group
Start Time : 16.515 min End Time : 17.683 min

Reference Component:

Use Average Calibration Factor (Area / Amount)

User Values:

Label :
Value 1: 250.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	229689.00	121453.13	-----	-----	1
2	20.0000	437360.50	239161.09	-----	-----	1
3	30.0000	674231.50	358863.12	-----	-----	1
4	40.0000	919536.50	484698.03	-----	-----	1
5	50.0000	1164522.00	622987.54	-----	-----	1

Average Calibration Factor = 22718.032167 (%RSD = 2.46) *OK*

C40+

Component Type : Timed Group
Start Time : 17.684 min End Time : 21.000 min
Reference Component:
Use Average Calibration Factor (Area / Amount)
User Values:

Label :
Value 1: 250.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 30.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	112168.50	41329.43	-----	-----	1
2	20.0000	212525.00	80003.96	-----	-----	1
3	30.0000	332368.00	123835.55	-----	-----	1
4	40.0000	453605.00	170135.88	-----	-----	1
5	50.0000	575431.00	221896.03	-----	-----	1

Average Calibration Factor = 11154.155667 (%RSD = 3.00) *OK*

Software Version: 4.1<2F12>
 Date: 12/14/00 08:29 AM
 Sample Name : #TEPH00-165 RT MARKER C8-C40 10 PPM
 Data File : C:\TC4\DATA_01\D12_030.RAW Date: 12/13/00 02:43 PM
 Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 30 Channel : A
 Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:
 Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

=====
 Updating method : C:\TC4\DATA_01\METHODS\C8-C40A.mth
 Calibration performed at level: 1
 Values will replace previous averages in the method
 Retention times in the method will be updated
 Reported response values are the method averages.
 =====

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
C8-C9	3.460	10.00000	106351.000000	10635.100000	-----	1	-----	-----	1	0
C10-C11	5.808	10.00000	110984.000000	11098.400000	-----	1	-----	-----	1	0
C12-C13	7.373	10.00000	113175.500000	11317.550000	-----	1	-----	-----	1	0
C14-C15	8.656	10.00000	113894.000000	11389.400000	-----	1	-----	-----	1	0
C16-C17	9.773	10.00000	115396.000000	11539.600000	-----	1	-----	-----	1	0
C18-C19	10.774	10.00000	117260.000000	11726.000000	-----	1	-----	-----	1	0
C20-C23	12.066	10.00000	235834.315789	23583.431579	-----	1	-----	-----	1	0
C24-C27	13.580	10.00000	238424.684211	23842.468421	-----	1	-----	-----	1	0
C28-C31	14.871	10.00000	238196.500000	23819.650000	-----	1	-----	-----	1	0
C32-C35	15.989	10.00000	233540.500000	23354.050000	-----	1	-----	-----	1	0
C36-C39	17.099	10.00000	229689.000000	22968.900000	-----	1	-----	-----	1	0
C40+	19.342	10.00000	112168.500000	11216.850000	-----	1	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
C8-C9	0.000000	12130.179000	-----	-----	-----	9
C10-C11	0.000000	12651.283722	-----	-----	-----	9
C12-C13	0.000000	12550.594334	-----	-----	-----	9
C14-C15	0.000000	12330.671411	-----	-----	-----	9
C16-C17	0.000000	12186.550282	-----	-----	-----	9
C18-C19	0.000000	12146.365251	-----	-----	-----	9
C20-C23	0.000000	23796.775992	-----	-----	-----	9
C24-C27	0.000000	23789.389841	-----	-----	-----	9
C28-C31	0.000000	23884.280667	-----	-----	-----	9
C32-C35	0.000000	22858.359000	-----	-----	-----	9
C36-C39	0.000000	21378.637833	-----	-----	-----	9
C40+	0.000000	10314.768000	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list

- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-165 RT MARKER C8-C40 10 PPM Time : 12/14/00 08:29 AM

Sample Number: 10 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 02:43 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_030.RAW

Result File : C:\TC4\DATA_01\D12_030.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_030.R

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

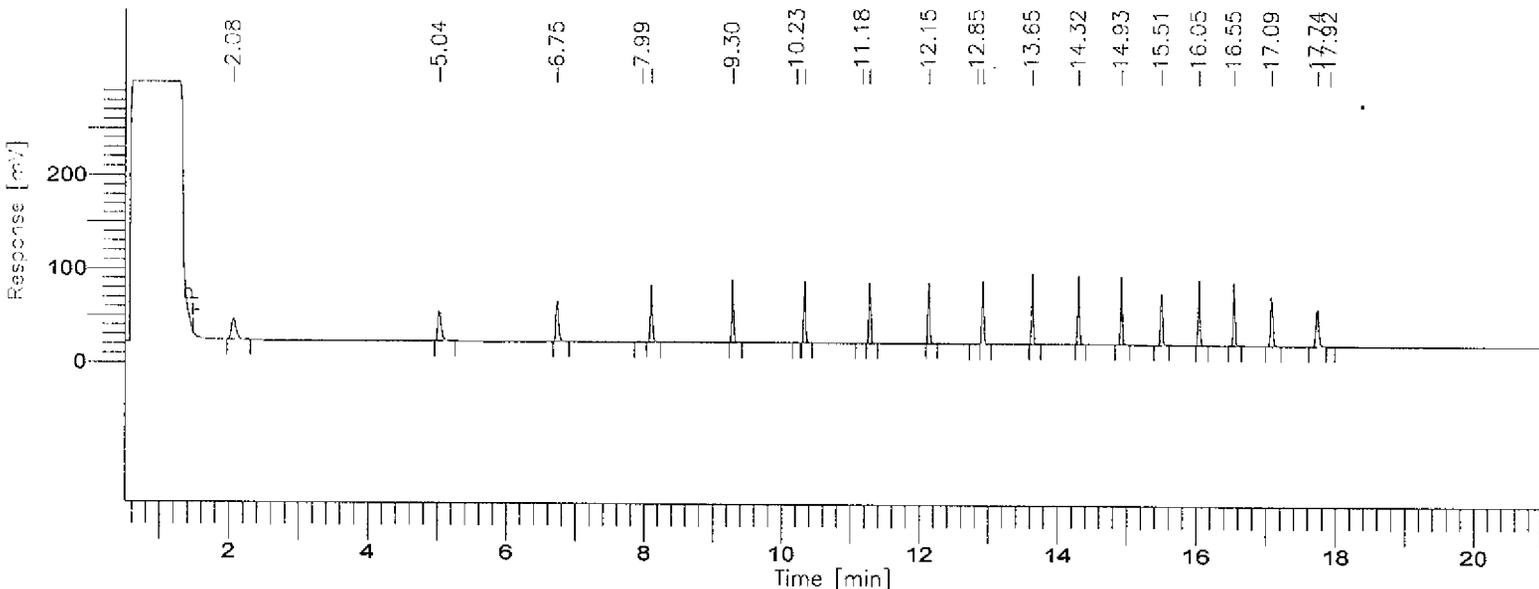
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 22



8015B(TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
3.46	C8-C9	106351	8.767	-----	10.0	
5.81	C10-C11	110984	8.773	-----	10.0	
7.37	C12-C13	113176	9.018	-----	10.0	
8.66	C14-C15	113894	9.237	-----	10.0	
9.77	C16-C17	115396	9.469	-----	10.0	
10.77	C18-C19	117260	9.654	-----	10.0	
12.07	C20-C23	235834	9.910	-----	10.0	
13.58	C24-C27	238425	10.022	-----	10.0	
14.87	C28-C31	238196	9.973	-----	10.0	
15.99	C32-C35	233540	10.217	-----	10.0	
17.10	C36-C39	229689	10.744	-----	10.0	
19.34	C40+	112169	10.875	-----	10.0	
		1964914	116.658			

Group Report For : C8-C9

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
2.08		106351	0.106	-----	10.0	
		106351	0.106			

Group Report For : C10-C11

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
5.04		110984	0.111	-----	10.0	
		110984	0.111			

Group Report For : C12-C13

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
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6.75	112527	0.113	-----	10.0
7.99	648	0.001	-----	10.0

	113176	0.113		
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Group Report For : C14-C15

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
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8.12		113894	0.114	-----	10.0	
------	--	--------	-------	-------	------	--

		113894	0.114			
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Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
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9.30		115050	0.115	-----	10.0	
------	--	--------	-------	-------	------	--

10.23		346	0.000	-----	10.0	
-------	--	-----	-------	-------	------	--

		115396	0.115			
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Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
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10.35		116174	0.116	-----	10.0	
-------	--	--------	-------	-------	------	--

11.18		1086	0.001	-----	10.0	
-------	--	------	-------	-------	------	--

		117260	0.117			
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Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
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11.29		117577	0.118	-----	10.0	
-------	--	--------	-------	-------	------	--

12.15		117727	0.118	-----	10.0	
-------	--	--------	-------	-------	------	--

12.85		530	0.001	-----	10.0	
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		235834	0.236			
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Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
12.93		118247	0.118	-----	10.0	
13.65		120178	0.120	-----	10.0	
		238425	0.238			

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.32		119500	0.120	-----	10.0	
14.93		118696	0.119	-----	10.0	
		238196	0.238			

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.51		117988	0.118	-----	10.0	
16.05		115552	0.116	-----	10.0	
		233540	0.234			

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
16.55		114842	0.115	-----	10.0	
17.09		114847	0.115	-----	10.0	
		229689	0.230			

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
17.74		110085	0.110	-----	10.0	
17.92		2083	0.002	-----	10.0	
		112169	0.112			

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

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STL - LOS ANGELES
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Report stored in ASCII file: C:\TC4\DATA_01\D12_030.TX0

Software Version: 4.1<2F12>

Date: 12/14/00 08:29 AM

Sample Name : #TEPH00-166 RT MARKER C8-C40 20 PPM

Data File : C:\TC4\DATA_01\D12_031.RAW Date: 12/13/00 03:13 PM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 31 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calibration performed at level: 2

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
C8-C9	3.460	20.00000	200507.000000	10025.350000	0.00	2	-----	-----	1	0
C10-C11	5.808	20.00000	212205.000000	10610.250000	0.00	2	-----	-----	1	0
C12-C13	7.373	20.00000	218489.000000	10924.450000	0.00	2	-----	-----	1	0
C14-C15	8.656	20.00000	222463.500000	11123.175000	0.00	2	-----	-----	1	0
C16-C17	9.773	20.00000	225547.000000	11277.350000	0.00	2	-----	-----	1	0
C18-C19	10.774	20.00000	229842.000000	11492.100000	0.00	2	-----	-----	1	0
C20-C23	12.066	20.00000	457578.000000	22878.900000	0.00	2	-----	-----	1	0
C24-C27	13.580	20.00000	463407.500000	23170.375000	0.00	2	-----	-----	1	0
C28-C31	14.871	20.00000	466551.500000	23327.575000	0.00	2	-----	-----	1	0
C32-C35	15.989	20.00000	455124.500000	22756.225000	0.00	2	-----	-----	1	0
C36-C39	17.099	20.00000	437360.500000	21868.025000	0.00	2	-----	-----	1	0
C40+	19.342	20.00000	212525.000000	10626.250000	0.00	2	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
C8-C9	0.000000	11642.009000	-----	-----	-----	9
C10-C11	0.000000	12174.378722	-----	-----	-----	9
C12-C13	0.000000	12179.783779	-----	-----	-----	9
C14-C15	0.000000	12057.006966	-----	-----	-----	9
C16-C17	0.000000	11986.093615	-----	-----	-----	9
C18-C19	0.000000	12019.001918	-----	-----	-----	9
C20-C23	0.000000	23634.065992	-----	-----	-----	9
C24-C27	0.000000	23723.089841	-----	-----	-----	9
C28-C31	0.000000	23832.110667	-----	-----	-----	9
C32-C35	0.000000	23173.649000	-----	-----	-----	9
C36-C39	0.000000	22275.202833	-----	-----	-----	9
C40+	0.000000	10810.448000	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list

- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-166 RT MARKER C8-C40 20 PPM Time : 12/14/00 08:29 AM

Sample Number: 20 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 03:13 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_031.RAW

Result File : C:\TC4\DATA_01\D12_031.RST

Inst Method : C:\TC4\DATA_01\METHODS\C8-C40A from C:\TC4\DATA_01\D12_031.RS

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

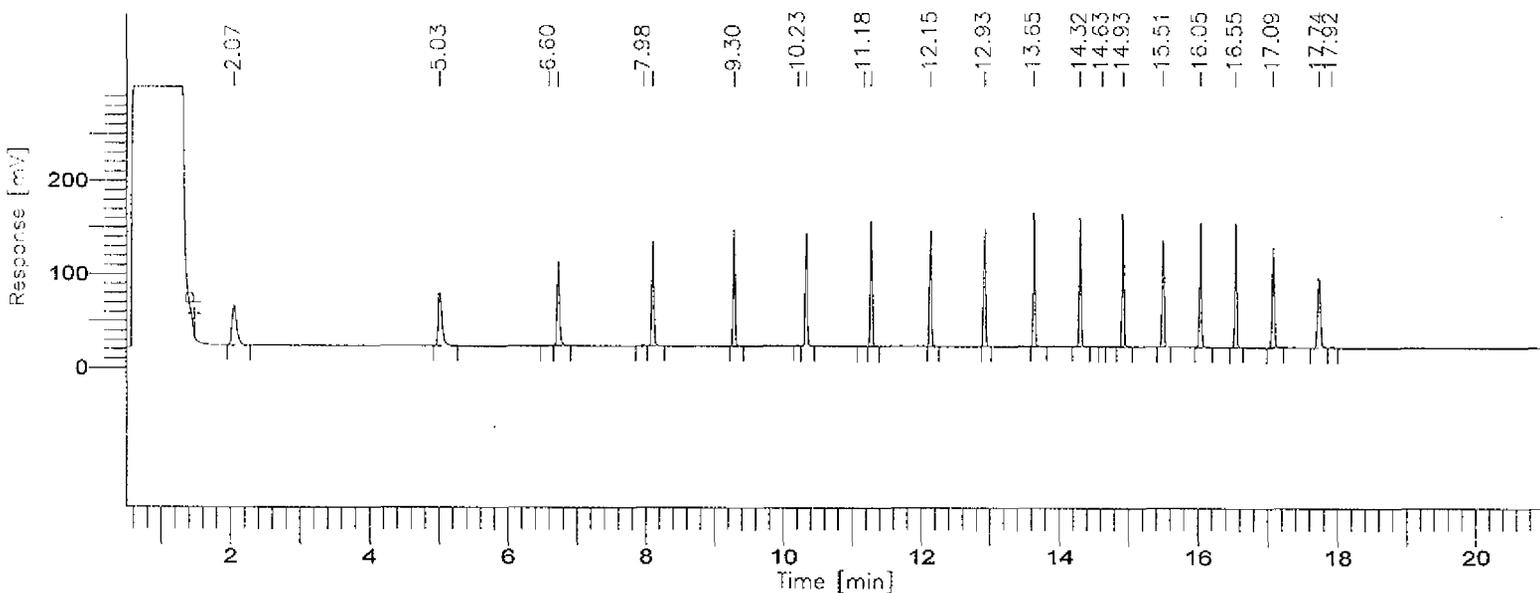
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 23



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
3.46	C8-C9	200507	17.223	-----	10.0	
5.81	C10-C11	212205	17.430	-----	10.0	
7.37	C12-C13	218489	17.939	-----	10.0	
8.66	C14-C15	222464	18.451	-----	10.0	
9.77	C16-C17	225547	18.817	-----	10.0	
10.77	C18-C19	229842	19.123	-----	10.0	
12.07	C20-C23	457578	19.361	-----	10.0	
13.58	C24-C27	463408	19.534	-----	10.0	
14.87	C28-C31	466552	19.577	-----	10.0	
15.99	C32-C35	455124	19.640	-----	10.0	
17.10	C36-C39	437360	19.634	-----	10.0	
19.34	C40+	212525	19.659	-----	10.0	
		3801600	226.388			

Group Report For : C8-C9

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
2.07		200507	0.201	-----	10.0	
		200507	0.201			

Group Report For : C10-C11

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
5.02		210906	0.211	-----	10.0	
6.60		1300	0.001	-----	10.0	
		212205	0.212			

Group Report For : C12-C13

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
------------	----------------	-------------------------------------	---------------------	------------	------------------	----

6.73		217378	0.217	-----	10.0
7.98		1111	0.001	-----	10.0
		218489	0.218		

Group Report For : C14-C15

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
8.11		222464	0.222	-----	10.0	
		222464	0.222			

Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
9.30		224927	0.225	-----	10.0	
10.23		620	0.001	-----	10.0	
		225547	0.226			

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
10.35		228273	0.228	-----	10.0	
11.18		1569	0.002	-----	10.0	
		229842	0.230			

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.29		228760	0.229	-----	10.0	
12.15		228818	0.229	-----	10.0	
		457578	0.458			

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
12.93		229366	0.229	-----	10.0	
13.65		234042	0.234	-----	10.0	
		463408	0.463			

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.31		233484	0.233	-----	10.0	
14.63		476	0.000	-----	10.0	
14.93		232591	0.233	-----	10.0	
		466552	0.467			

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.51		230585	0.231	-----	10.0	
16.05		224540	0.225	-----	10.0	
		455124	0.455			

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
16.55		219552	0.220	-----	10.0	
17.09		217809	0.218	-----	10.0	
		437360	0.437			

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
17.74		208689	0.209	-----	10.0	
17.92		3836	0.004	-----	10.0	
		212525	0.213			

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

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Report stored in ASCII file: C:\TC4\DATA_01\D12_031.TX0

Software Version: 4.1<2F12>

Date: 12/14/00 08:29 AM

Sample Name : #TEPH00-216 RT MARKER C8-C40 30 PPM

Data File : C:\TC4\DATA_01\D12_032.RAW Date: 12/13/00 03:44 PM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 32 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calibration performed at level: 3

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
C8-C9	3.460	30.00000	294508.000000	9816.933333	0.00	3	-----	-----	1	0
C10-C11	5.808	30.00000	316101.000000	10536.700000	0.00	3	-----	-----	1	0
C12-C13	7.372	30.00000	323561.000000	10785.366667	0.00	3	-----	-----	1	0
C14-C15	8.656	30.00000	328308.500000	10943.616667	0.00	3	-----	-----	1	0
C16-C17	9.773	30.00000	332490.000000	11083.000000	0.00	3	-----	-----	1	0
C18-C19	10.774	30.00000	335807.500000	11193.583333	0.00	3	-----	-----	1	0
C20-C23	12.066	30.00000	677444.000000	22581.466667	0.00	3	-----	-----	1	0
C24-C27	13.580	30.00000	686319.000000	22877.300000	0.00	3	-----	-----	1	0
C28-C31	14.871	30.00000	688610.000000	22953.666667	0.00	3	-----	-----	1	0
C32-C35	15.989	30.00000	679757.500000	22658.583333	0.00	3	-----	-----	1	0
C36-C39	17.099	30.00000	674231.500000	22474.383333	0.00	3	-----	-----	1	0
C40+	19.342	30.00000	332368.000000	11078.933333	0.00	3	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
C8-C9	0.000000	11166.275667	-----	-----	-----	9
C10-C11	0.000000	11724.848500	-----	-----	-----	9
C12-C13	0.000000	11809.704001	-----	-----	-----	9
C14-C15	0.000000	11781.053633	-----	-----	-----	9
C16-C17	0.000000	11761.409393	-----	-----	-----	9
C18-C19	0.000000	11840.262807	-----	-----	-----	9
C20-C23	0.000000	23437.078149	-----	-----	-----	9
C24-C27	0.000000	23593.847684	-----	-----	-----	9
C28-C31	0.000000	23678.817333	-----	-----	-----	9
C32-C35	0.000000	22953.675667	-----	-----	-----	9
C36-C39	0.000000	21981.856167	-----	-----	-----	9
C40+	0.000000	10693.084667	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list

- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-216 RT MARKER C8-C40 30 PPM Time : 12/14/00 08:29 AM

Sample Number: 30 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 03:44 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_032.RAW

Result File : C:\TC4\DATA_01\D12_032.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_032.R

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

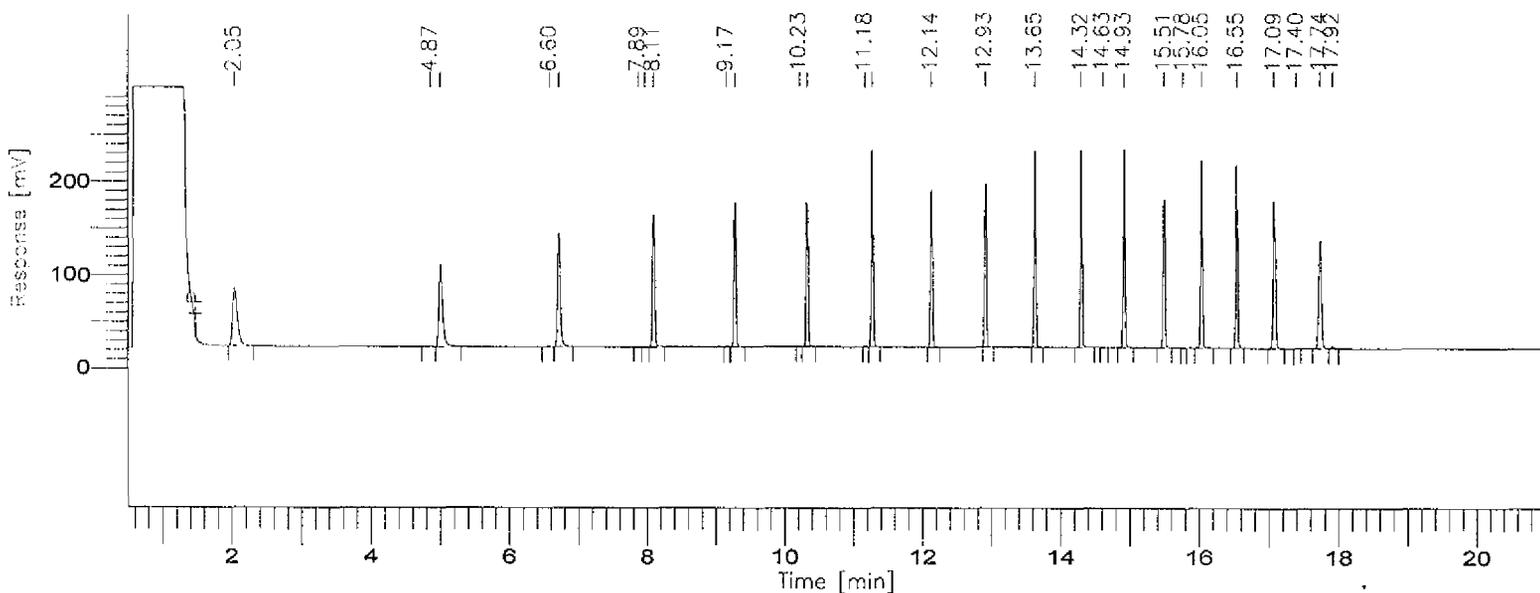
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 28



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
3.46	C8-C9	294508	26.375	-----	10.0	
5.81	C10-C11	316101	26.960	-----	10.0	
7.37	C12-C13	323561	27.398	-----	10.0	
8.66	C14-C15	328308	27.867	-----	10.0	
9.77	C16-C17	332490	28.270	-----	10.0	
10.77	C18-C19	335808	28.361	-----	10.0	
12.07	C20-C23	677444	28.905	-----	10.0	
13.58	C24-C27	686319	29.089	-----	10.0	
14.87	C28-C31	688610	29.081	-----	10.0	
15.99	C32-C35	679758	29.614	-----	10.0	
17.10	C36-C39	674232	30.672	-----	10.0	
19.34	C40+	332368	31.083	-----	10.0	
		5669506	343.675			

Group Report For : C8-C9

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
2.05		292851	0.293	-----	10.0	
4.87		1657	0.002	-----	10.0	
		294508	0.295			

Group Report For : C10-C11

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
5.02		314427	0.314	-----	10.0	
6.60		1674	0.002	-----	10.0	
		316101	0.316			

Group Report For : C12-C13

Time	Component	Area	Final Results	% SURR	REP. LIMIT	FN
------	-----------	------	---------------	--------	------------	----

[min]	Name	[$\mu\text{V}\cdot\text{s}$]	(ppm)	REC	mg/kg
6.73		321602	0.322	-----	10.0
7.89		406	0.000	-----	10.0
7.98		1553	0.002	-----	10.0
		323561	0.324		

Group Report For : C14-C15

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
8.11		327475	0.327	-----	10.0	
9.17		834	0.001	-----	10.0	
		328308	0.328			

Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
9.29		331471	0.331	-----	10.0	
10.23		1019	0.001	-----	10.0	
		332490	0.332			

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
10.34		333898	0.334	-----	10.0	
11.18		1910	0.002	-----	10.0	
		335808	0.336			

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.28		338287	0.338	-----	10.0	
12.14		339157	0.339	-----	10.0	
		677444	0.677			

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
12.93		341520	0.342	-----	10.0	
13.65		344799	0.345	-----	10.0	
		686319	0.686			

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.32		345774	0.346	-----	10.0	
14.63		634	0.001	-----	10.0	
14.93		342203	0.342	-----	10.0	
		688610	0.689			

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.51		341423	0.341	-----	10.0	
15.78		314	0.000	-----	10.0	
16.05		338021	0.338	-----	10.0	
		679758	0.680			

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
16.55		335914	0.336	-----	10.0	
17.09		337942	0.338	-----	10.0	
17.40		376	0.000	-----	10.0	
		674232	0.674			

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
---------------	-------------------	--	------------------------	---------------	---------------------	----

17.74	326154	0.326 -----	10.0
17.92	6214	0.006 -----	10.0

	332368	0.332	

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\D12_032.TX0

Software Version: 4.1<2F12>

Date: 12/14/00 08:29 AM

Sample Name : #TEPH00-168 RT MARKER C8-C40 40 PPM

Data File : C:\TC4\DATA_01\D12_033.RAW Date: 12/13/00 04:14 PM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 33 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calibration performed at level: 4

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
C8-C9	3.460	40.00000	394971.000000	9874.275000	0.00	4	-----	-----	1	0
C10-C11	5.808	40.00000	419573.500000	10489.337500	0.00	4	-----	-----	1	0
C12-C13	7.373	40.00000	427680.000000	10692.000000	0.00	4	-----	-----	1	0
C14-C15	8.656	40.00000	432459.500000	10811.487500	0.00	4	-----	-----	1	0
C16-C17	9.773	40.00000	437067.763158	10926.694079	0.00	4	-----	-----	1	0
C18-C19	10.774	40.00000	442784.236842	11069.605921	0.00	4	-----	-----	1	0
C20-C23	12.066	40.00000	891659.500000	22291.487500	0.00	4	-----	-----	1	0
C24-C27	13.580	40.00000	902089.000000	22552.225000	0.00	4	-----	-----	1	0
C28-C31	14.871	40.00000	910384.500000	22759.612500	0.00	4	-----	-----	1	0
C32-C35	15.989	40.00000	911813.000000	22795.325000	0.00	4	-----	-----	1	0
C36-C39	17.099	40.00000	919536.500000	22988.412500	0.00	4	-----	-----	1	0
C40+	19.342	40.00000	453605.000000	11340.125000	0.00	4	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
C8-C9	0.000000	10645.475667	-----	-----	-----	9
C10-C11	0.000000	11227.033500	-----	-----	-----	9
C12-C13	0.000000	11378.904464	-----	-----	-----	9
C14-C15	0.000000	11428.254241	-----	-----	-----	9
C16-C17	0.000000	11480.214637	-----	-----	-----	9
C18-C19	0.000000	11591.756491	-----	-----	-----	9
C20-C23	0.000000	23123.323149	-----	-----	-----	9
C24-C27	0.000000	23333.017684	-----	-----	-----	9
C28-C31	0.000000	23434.824833	-----	-----	-----	9
C32-C35	0.000000	22976.870667	-----	-----	-----	9
C36-C39	0.000000	22442.396167	-----	-----	-----	9
C40+	0.000000	10973.349667	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list

- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-168 RT MARKER C8-C40 40 PPM Time : 12/14/00 08:29 AM

Sample Number: 40 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 04:14 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_033.RAW

Result File : C:\TC4\DATA_01\D12_033.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_033.R

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

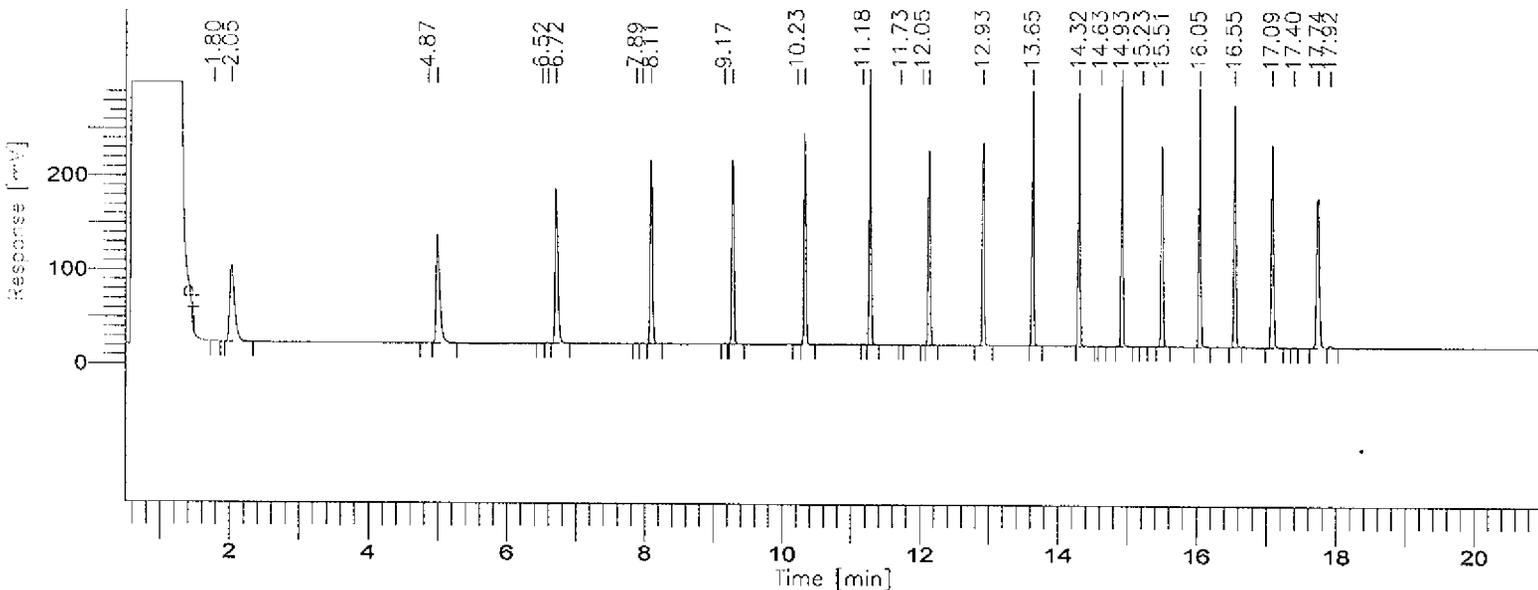
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 32



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
3.46	C8-C9	394971	37.102	-----	10.0	
5.81	C10-C11	419574	37.372	-----	10.0	
7.37	C12-C13	427680	37.585	-----	10.0	
8.66	C14-C15	432460	37.841	-----	10.0	
9.77	C16-C17	437068	38.071	-----	10.0	
10.77	C18-C19	442784	38.198	-----	10.0	
12.07	C20-C23	891660	38.561	-----	10.0	
13.58	C24-C27	902089	38.661	-----	10.0	
14.87	C28-C31	910384	38.848	-----	10.0	
15.99	C32-C35	911813	39.684	-----	10.0	
17.10	C36-C39	919536	40.973	-----	10.0	
19.34	C40+	453605	41.337	-----	10.0	
		7543624	464.234			

Group Report For : C8-C9

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
2.05		393053	0.393	-----	10.0	
4.87		1918	0.002	-----	10.0	
		394971	0.395			

Group Report For : C10-C11

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
5.01		417081	0.417	-----	10.0	
6.52		443	0.000	-----	10.0	
6.60		2050	0.002	-----	10.0	
		419574	0.420			

Group Report For : C12-C13

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
6.72		424997	0.425	-----	10.0	
7.89		558	0.001	-----	10.0	
7.98		2125	0.002	-----	10.0	
		427680	0.428			

Group Report For : C14-C15

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
8.11		431418	0.431	-----	10.0	
9.17		1041	0.001	-----	10.0	
		432460	0.432			

Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
9.29		435748	0.436	-----	10.0	
10.23		1319	0.001	-----	10.0	
		437068	0.437			

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
10.34		440547	0.441	-----	10.0	
11.18		2238	0.002	-----	10.0	
		442784	0.443			

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.28		445230	0.445	-----	10.0	
11.73		298	0.000	-----	10.0	
12.05		296	0.000	-----	10.0	
12.14		445836	0.446	-----	10.0	

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
		891660	0.892			

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
12.93		447071	0.447	-----	10.0	
13.65		455018	0.455	-----	10.0	
		902089	0.902			

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.32		454791	0.455	-----	10.0	
14.63		820	0.001	-----	10.0	
14.93		454264	0.454	-----	10.0	
15.23		510	0.001	-----	10.0	
		910384	0.910			

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.51		456382	0.456	-----	10.0	
16.05		455431	0.455	-----	10.0	
		911813	0.912			

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
16.55		457422	0.457	-----	10.0	
17.09		461528	0.462	-----	10.0	
17.40		587	0.001	-----	10.0	
		919536	0.920			

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
17.74		445929	0.446	-----	10.0	
17.92		7676	0.008	-----	10.0	
		453605	0.454			

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\DATA_01\D12_033.TX0

Software Version: 4.1<2F12>

Date: 12/14/00 08:30 AM

Sample Name : #TEPH00-169 RT MARKER C8-C40 50 PPM

Data File : C:\TC4\DATA_01\D12_034.RAW Date: 12/13/00 04:44 PM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 34 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calibration performed at level: 5

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
C8-C9	3.460	50.00000	517748.500000	10354.970000	0.00	5	-----	-----	1	0
C10-C11	5.808	50.00000	539353.000000	10787.060000	0.00	5	-----	-----	1	0
C12-C13	7.373	50.00000	544146.500000	10882.930000	0.00	5	-----	-----	1	0
C14-C15	8.656	50.00000	548556.000000	10971.120000	0.00	5	-----	-----	1	0
C16-C17	9.773	50.00000	553629.500000	11072.590000	0.00	5	-----	-----	1	0
C18-C19	10.774	50.00000	562070.000000	11241.400000	0.00	5	-----	-----	1	0
C20-C23	12.066	50.00000	1126597.000000	22531.940000	0.00	5	-----	-----	1	0
C24-C27	13.580	50.00000	1138834.000000	22776.680000	0.00	5	-----	-----	1	0
C28-C31	14.871	50.00000	1147244.500000	22944.890000	0.00	5	-----	-----	1	0
C32-C35	15.989	50.00000	1151451.500000	23029.030000	0.00	5	-----	-----	1	0
C36-C39	17.099	50.00000	1164522.000000	23290.440000	0.00	5	-----	-----	1	0
C40+	19.342	50.00000	575431.000000	11508.620000	0.00	5	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
C8-C9	0.000000	10141.325667	-----	-----	-----	9
C10-C11	0.000000	10704.349500	-----	-----	-----	9
C12-C13	0.000000	10920.459333	-----	-----	-----	9
C14-C15	0.000000	11047.759833	-----	-----	-----	9
C16-C17	0.000000	11179.846816	-----	-----	-----	9
C18-C19	0.000000	11344.537851	-----	-----	-----	9
C20-C23	0.000000	22773.445149	-----	-----	-----	9
C24-C27	0.000000	23043.809684	-----	-----	-----	9
C28-C31	0.000000	23161.078833	-----	-----	-----	9
C32-C35	0.000000	22918.642667	-----	-----	-----	9
C36-C39	0.000000	22718.032167	-----	-----	-----	9
C40+	0.000000	11154.155667	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list

- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-169 RT MARKER C8-C40 50 PPM Time : 12/14/00 08:30 AM

Sample Number: 50 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 04:44 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_034.RAW

Result File : C:\TC4\DATA_01\D12_034.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_034.R

Proc Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Calib Method : C:\TC4\DATA_01\METHODS\C8-C40A.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

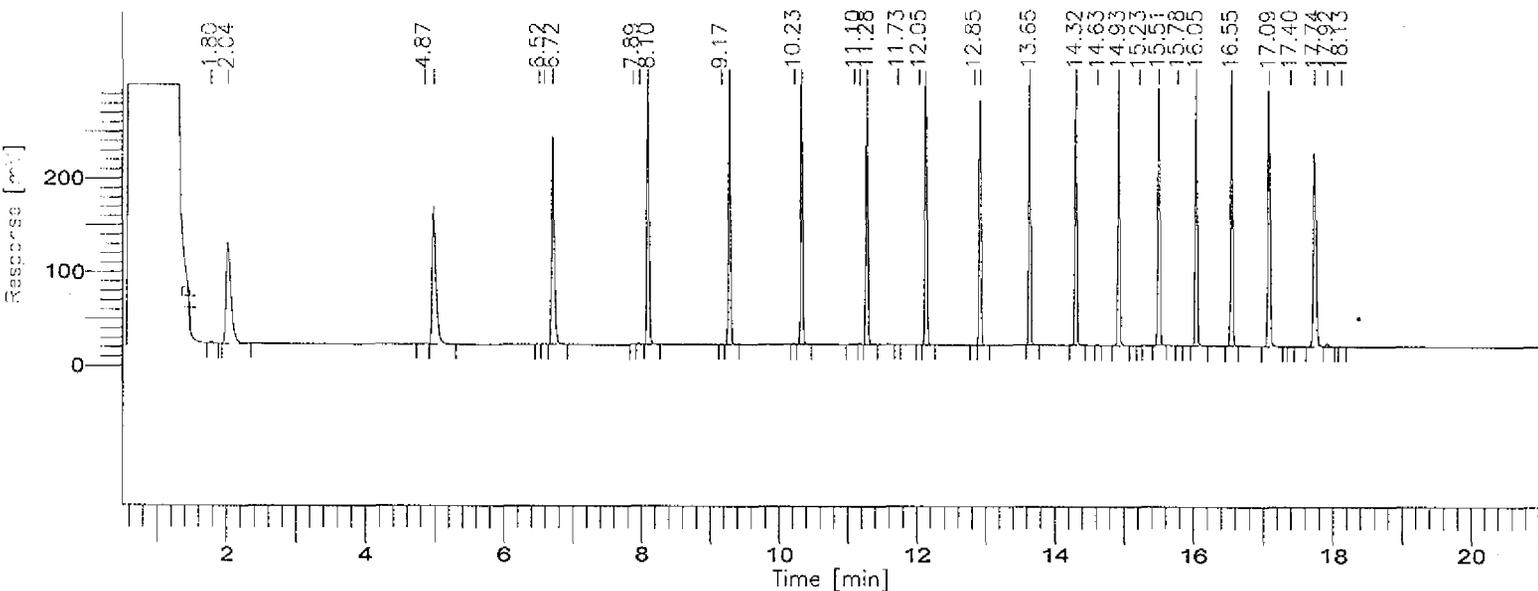
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 36



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
3.46	C8-C9	517748	51.053	-----	10.0	
5.81	C10-C11	539353	50.386	-----	10.0	
7.37	C12-C13	544146	49.828	-----	10.0	
8.66	C14-C15	548556	49.653	-----	10.0	
9.77	C16-C17	553630	49.520	-----	10.0	
10.77	C18-C19	562070	49.545	-----	10.0	
12.07	C20-C23	1126597	49.470	-----	10.0	
13.58	C24-C27	1138834	49.420	-----	10.0	
14.87	C28-C31	1147244	49.533	-----	10.0	
15.99	C32-C35	1151452	50.241	-----	10.0	
17.10	C36-C39	1164522	51.260	-----	10.0	
19.34	C40+	575431	51.589	-----	10.0	
		9569584	601.500			

Group Report For : C8-C9

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
2.04		515130	0.515	-----	10.0	
4.87		2618	0.003	-----	10.0	
		517748	0.518			

Group Report For : C10-C11

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
5.00		536134	0.536	-----	10.0	
6.52		509	0.001	-----	10.0	
6.60		2710	0.003	-----	10.0	
		539353	0.539			

Group Report For : C12-C13

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
6.72		540727	0.541	-----	10.0	
7.89		721	0.001	-----	10.0	
7.98		2698	0.003	-----	10.0	
		544146	0.544			

Group Report For : C14-C15

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
8.10		547136	0.547	-----	10.0	
9.17		1420	0.001	-----	10.0	
		548556	0.549			

Group Report For : C16-C17

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
9.29		552008	0.552	-----	10.0	
10.23		1621	0.002	-----	10.0	
		553630	0.554			

Group Report For : C18-C19

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
10.34		557820	0.558	-----	10.0	
11.10		1204	0.001	-----	10.0	
11.18		3046	0.003	-----	10.0	
		562070	0.562			

Group Report For : C20-C23

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.28		562841	0.563	-----	10.0	
11.73		435	0.000	-----	10.0	
12.05		502	0.001	-----	10.0	

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
12.14		562498	0.562	-----	10.0	
12.85		322	0.000	-----	10.0	
		1126597	1.127			

Group Report For : C24-C27

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
12.93		564360	0.564	-----	10.0	
13.65		574474	0.574	-----	10.0	
		1138834	1.139			

Group Report For : C28-C31

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
14.31		572927	0.573	-----	10.0	
14.63		953	0.001	-----	10.0	
14.93		572727	0.573	-----	10.0	
15.23		638	0.001	-----	10.0	
		1147244	1.147			

Group Report For : C32-C35

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
15.51		575366	0.575	-----	10.0	
15.78		477	0.000	-----	10.0	
16.05		575608	0.576	-----	10.0	
		1151452	1.151			

Group Report For : C36-C39

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
16.55		578845	0.579	-----	10.0	
17.09		584956	0.585	-----	10.0	

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
17.40		721	0.001	-----	10.0	
		1164522	1.165			

Group Report For : C40+

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
17.74		565024	0.565	-----	10.0	
17.92		9770	0.010	-----	10.0	
18.13		638	0.001	-----	10.0	
		575431	0.575			

Missing Component Report

Component	Expected Retention (Calibration File)

All components were found	

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\D12_034.TX0

Turbochrom Sequence File : C:\TC4\DATA_01\D12.SEQ
 Created by : doug on : 12/12/00 07:31 AM
 Edited by : EC on : 12/13/00 03:44 PM
 Description :

Number of Times Edited : 9

Sequence File Header Information:

Number of Rows : 109
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	DAILY RT MAKER	C8-C40	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	#TEPH00-175 DIE	40 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	#TEPH00-176 DIE	100 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	#TEPH00-220 DIE	1000 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	#TEPH00-179 DIE	2000 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	#TEPH00-181 DIE	5000 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Std Check	#TEPH00-209 SEC	1000 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	#TEPH00-165 RT	10 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	#TEPH00-166 RT	20 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	#TEPH00-216 RT	30 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	#TEPH00-168 RT	40 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	#TEPH00-169 RT	50 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DAILY RT MARKER	C8-C40	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Cal:Replace	#TEPH00-175 DIE	40 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Cal:Replace	#TEPH00-176 DIE	100 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Cal:Replace	#TEPH00-220 DIE	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Cal:Replace	#TEPH00-179 DIE	2000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Cal:Replace	#TEPH00-181 DIE	5000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Std Check	#TEPH00-209 SEC	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	#TEPH00-165 RT	10 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	#TEPH00-166 RT	20 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	#TEPH00-216 RT	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	#TEPH00-168 RT	40 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	#TEPH00-169 RT	50 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Std Check	#TEPH00-220 DIE	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Std Check	#TEPH00-208 RT	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	L050280-MB	DQ53T1AAB	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
38	Sample	L050280-LCS	DQ53T1ACC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
39	Sample	L050280-LCD	DQ53T1ADL	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
40	Sample	L050280-39	DQV5A1AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1047.000	0.000	100.000
41	Std Check	#TEPH00-220 DIE	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Std Check	#TEPH00-208 RT	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	L080328-MB	DQ8JQ1AAB	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
44	Sample	L080328-LCS	DQ8JQ1ACC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
45	Sample	L080328-02	DQ55W1AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
46	Sample	L080328-02 MS	DQ55W1AES	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
47	Sample	L080328-02 MSD	DQ55W1AFD	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
48	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
49	Sample	L080328-03	DQ5511AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
50	Sample	L080328-04	DQ5521AA	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	L080328-05	DQ5551AA	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	L080328-06	DQ5561AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
54	Sample	L080328-07	DQ5571AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
55	Std Check	#TEPH00-220 DIE	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Std Check	#TEPH00-208 RT	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	L080328-08	DQ5581AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
58	Sample	L080328-09	DQ5591AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
59	Sample	L080328-12	DQ56D1AA	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
60	Sample	L080328-13	DQ56E1AA	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

INITIAL CALIBRATION DATA

Date Analyzed: 12-13-05

Instrument ID: GC01
Dreisler C10 → C24

Turbochrom Method File : C:\TC4\DATA_01\METHODS\DBC10C24.MTH
Created by : ELVIE on : 11/1/99 01:41 PM
Edited by : ec on : 2/2/01 07:12 AM
Description :

Number of Times Edited : 104
Number of Times Calibrated : 637

Updated 2-2-01

Processing Parameters :
Bunch Factor : 1 points
Noise Threshold : 50 μ V
Area Threshold : 200.00 μ V

Peak Separation Criteria
Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria
Peak Height Ratio : 5.000
Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

*due to minor shift
2-2-01 ec*

Baseline Timed Events :
Event #1 - -P at 0.131
Event #2 - +CB at 2.963
Event #3 - +P at 3.025
Event #4 - +I at 4.671
Event #5 - -I at 12.835
Event #6 - -CB at 13.898
Event #7 - S at 14.379
Event #8 - S at 14.528
Event #9 - -P at 19.000

Annotated Replot Parameters :
No replot will be printed

Report Format files :
No report format files given

User Programs :
User Program #1 : C:\TC4\DATA_01\RST_READ.EXE
Command Line : \$RST
Entry Point : Post Analysis
Synchronize : NO

Global Information :
Default Sample Volume : 1.000 μ L
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : YES

Reject outliers during calibration : NO
 An External Standard calibration will be used
 Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :

DIESEL C10-C24

Component Type : Single Peak Component
 Retention Time : 7.950 min Search Window: 40.00 s, 10.00 %

Reference Component:

Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 1000.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	40.0000	451805.00	4633.76	-----	-----	1
2	100.0000	1054526.40	11104.21	-----	-----	1
3	1000.0000	9919222.75	101148.74	-----	-----	1
4	2000.0000	20110400.41	208444.04	-----	-----	1
5	5000.0000	48269939.11	470784.76	-----	-----	1

Average Calibration Factor = 10293.759947 (%RSD = 6.28)

BENZO-A-PYRENE

Component Type : Single Peak Component
 Retention Time : 14.430 min Search Window: 5.00 s, 3.00 %

Reference Component:

Find largest peak in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label :
 Value 1: 12.500000
 Value 2: 0.250000
 Value 3: 12.500000
 Value 4: 0.250000
 Value 5: 50.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	109286.80	47835.44	-----	-----	1
2	25.0000	290804.33	145093.22	-----	-----	1
3	50.0000	579008.43	340012.29	-----	-----	1
4	80.0000	940605.60	551018.44	-----	-----	1
5	100.0000	1130624.67	606485.69	-----	-----	1

Average Calibration Factor = 11440.967801 (%RSD = 2.89)

Turbochrom Method File : C:\TC4\DATA_01\METHODS\DBC10C24.MTH

Created by : ELVIE on : 11/1/99 01:41 PM

Edited by : ec on : 12/14/00 08:06 AM

Description :

Number of Times Edited : 93

Number of Times Calibrated : 637

Gco1 Diesel C10→C24

Processing Parameters :

121300

Bunch Factor : 1 points

Noise Threshold : 50 μ V

Area Threshold : 200.00 μ V

Peak Separation Criteria

Width Ratio : 0.200

Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria

Peak Height Ratio : 5.000

Adjusted Height Ratio : 4.000

Valley Height Ratio : 3.000

Average Cal factor - OK

Second source - OK

Baseline Timed Events :

Event #1 - -P at 0.131

Event #2 - +CB at 2.963

Event #3 - +P at 3.025

Event #4 - +I at 4.937

Event #5 - -I at 12.975

Event #6 - -CB at 13.898

Event #7 - S at 14.496

Event #8 - S at 14.625

Event #9 - -P at 19.000

Annotated Replot Parameters :

No replot will be printed

Report Format files :

No report format files given

User Programs :

User Program #1 : C:\TC4\DATA_01\RST_READ.EXE

Command Line : \$RST

Entry Point : Post Analysis

Synchronize : NO

Global Information :

Default Sample Volume : 1.000 μ L

Quantitation Units : ng

Void Time : 0.000 min

Correct amounts during calibration : YES

Reject outliers during calibration : NO
 An External Standard calibration will be used
 Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :

DIESEL C10-C24

Component Type : Single Peak Component
 Retention Time : 9.830 min Search Window: 40.00 s, 10.00 %
 Reference Component:
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label :
 Value 1: 250.000000
 Value 2: 5.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 1000.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	40.0000	451805.00	4633.76	-----	-----	1
2	100.0000	1054526.40	11104.21	-----	-----	1
3	1000.0000	9919222.75	101148.74	-----	-----	1
4	2000.0000	20110400.41	208444.04	-----	-----	1
5	5000.0000	48269939.11	470784.76	-----	-----	1

Average Calibration Factor = 10293.759947 (%RSD = 6.28) *ok*

BENZO-A-PYRENE

Component Type : Single Peak Component
 Retention Time : 14.550 min Search Window: 5.00 s, 3.00 %
 Reference Component:
 Find largest peak in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label :
 Value 1: 12.500000
 Value 2: 0.250000
 Value 3: 12.500000
 Value 4: 0.250000
 Value 5: 50.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	#.Replicates
1	10.0000	109286.80	47835.44	-----	-----	1
2	25.0000	290804.33	145093.22	-----	-----	1
3	50.0000	579008.43	340012.29	-----	-----	1
4	80.0000	940605.60	551018.44	-----	-----	1
5	100.0000	1130624.67	606485.69	-----	-----	1

Average Calibration Factor = 11440.967801 (%RSD = 2.89) *ok*

Software Version: 4.1<2F12>

Sample Name : #TEPH00-209 SECOND SOURCE DIESEL STD 100 Time : 12/14/00 08:06

Sample Number: 1000 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898

Data Acquisition Time: 12/13/00 01:42 PM

Delay Time : 0.50 min.

second source - ok

End Time : 21.00 min.

From Ext lab diesel stock

Sampling Rate : 1.0000 pts/sec

1960-2

Raw Data File : C:\TC4\DATA_01\D12_028.RAW

Result File : C:\TC4\DATA_01\D12_028.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_028.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_028.R

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_028.R

Sequence File : C:\TC4\DATA_01\D12.SEQ

12-14-00 EC

Source: Union 76, Edinger, Sta Ana

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

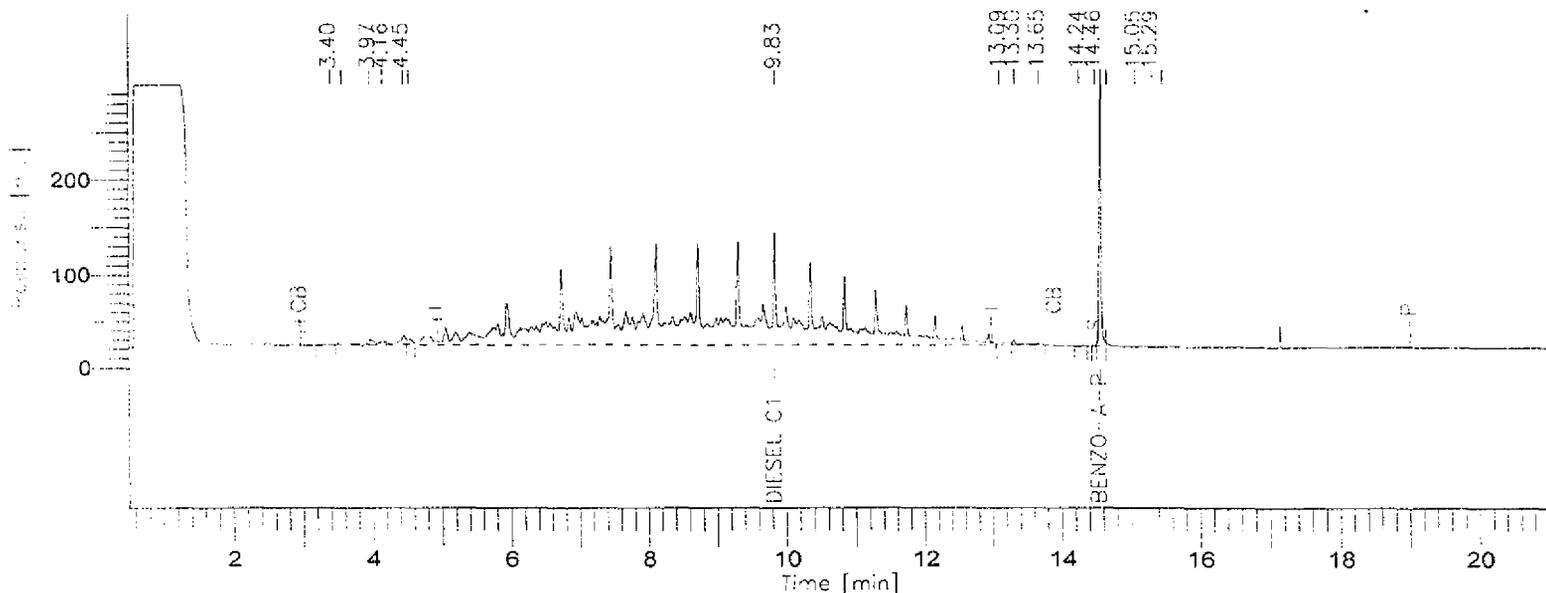
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 17



8015B(TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	ACTUAL VALUE (PPM)	TRUE VALUE	% D	
3.403		6545	0.0065	-----	-----	
3.565		37052	0.0371	-----	-----	
3.969		34829	0.0348	-----	-----	
4.156		30449	0.0304	-----	-----	
4.453		59706	0.0597	-----	-----	
4.532		32284	0.0323	-----	-----	
9.834	DIESEL C10-C24	10084659	979.6867	1000.0	-2.03	ok
13.086		27437	0.0274	-----	-----	
13.298		27847	0.0278	-----	-----	
13.650		4868	0.0049	-----	-----	
14.237		2629	0.0026	-----	-----	
14.464		2978	0.0030	-----	-----	
14.548	BENZO-A-PYRENE	578129	50.5315	50.0	1.06	ok
14.633		8858	0.0089	-----	-----	
15.050		727	0.0007	-----	-----	
15.289		1196	0.0012	-----	-----	
15.441		687	0.0007	-----	-----	
		10940880	1030.4963			

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\DATA_01\D12_028.TX0

Software Version: 4.1<2F12>

Date: 12/14/00 07:51 AM

Sample Name : #TEPH00-175 DIESEL STD 40 PPM

Data File : C:\TC4\DATA_01\D12_023.RAW Date: 12/13/00 11:10 AM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 23 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calibration performed at level: 1

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
DIESEL C10-C24	8.227	40.00000	451805.000000	11295.125000	6.51	5	-----	-----	1	0
BENZO-A-PYRENE	14.550	10.00000	109286.804348	10928.680435	0.01	5	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r ²	Status
DIESEL C10-C24	0.000000	9761.770720	-----	-----	-----	9
BENZO-A-PYRENE	0.000000	11466.065578	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list
- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-175 DIESEL STD 40 PPM Time : 12/14/00 07:51 AM

Sample Number: 40 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 11:10 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_023.RAW

Result File : C:\TC4\DATA_01\D12_023.rst

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_023.r

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

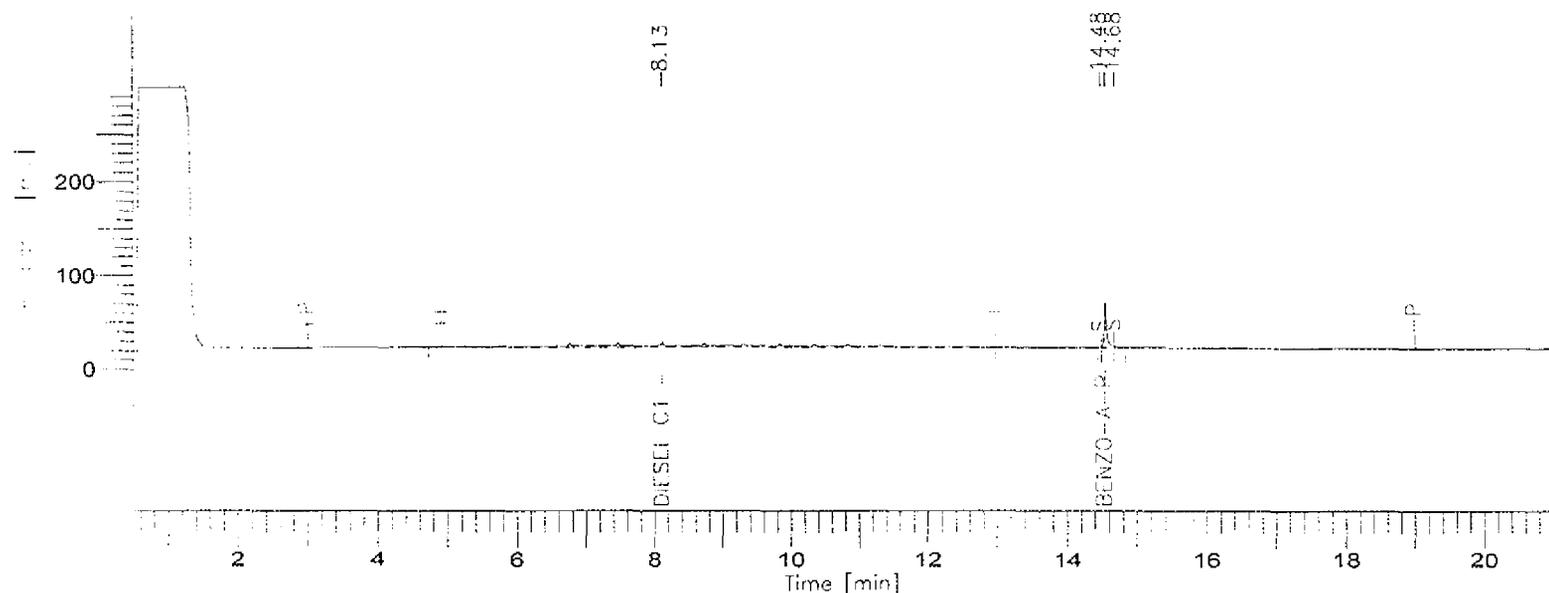
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 4



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
8.13	DIESEL C10-C24	451805	46.283	-----	10.0	
14.55	BENZO-A-PYRENE	109287	9.531	76.3	10.0	
		561092	55.814			

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\DATA_01\D12_023.TX0

Software Version: 4.1<2F12>

Date: 12/14/00 07:56 AM

Sample Name : #TEPH00-176 DIESEL STD 100 PPM

Data File : C:\TC4\DATA_01\D12_024.RAW Date: 12/13/00 11:41 AM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 24 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calibration performed at level: 2

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
DIESEL C10-C24	8.227	100.00000	1054526.395431	10545.263954	6.51	5	-----	-----	1	0
BENZO-A-PYRENE	14.550	25.00000	290804.333333	11632.173333	0.01	5	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
DIESEL C10-C24	0.000000	10094.383511	-----	-----	-----	9
BENZO-A-PYRENE	0.000000	11476.463578	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list
- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-176 DIESEL STD 100 PPM Time : 12/14/00 07:56 AM

Sample Number: 100 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 11:41 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_024.RAW

Result File : C:\TC4\DATA_01\D12_024.rst

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_024.r

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

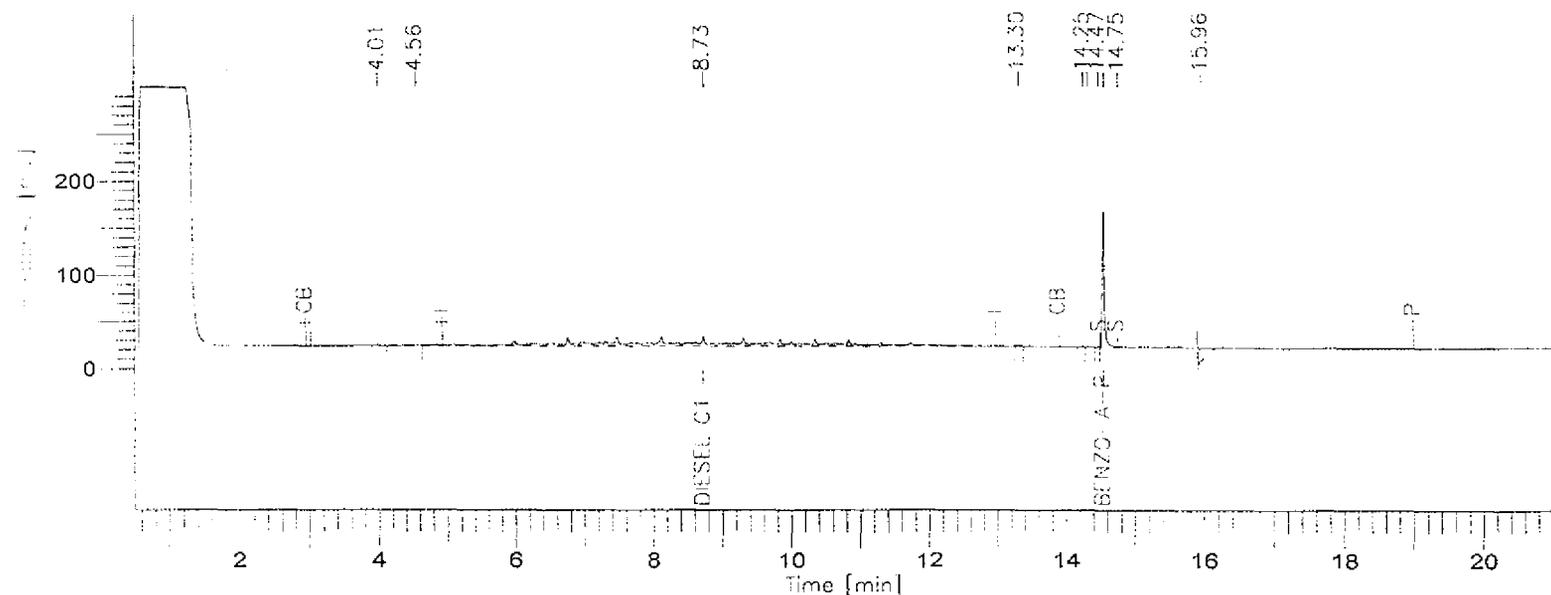
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 10



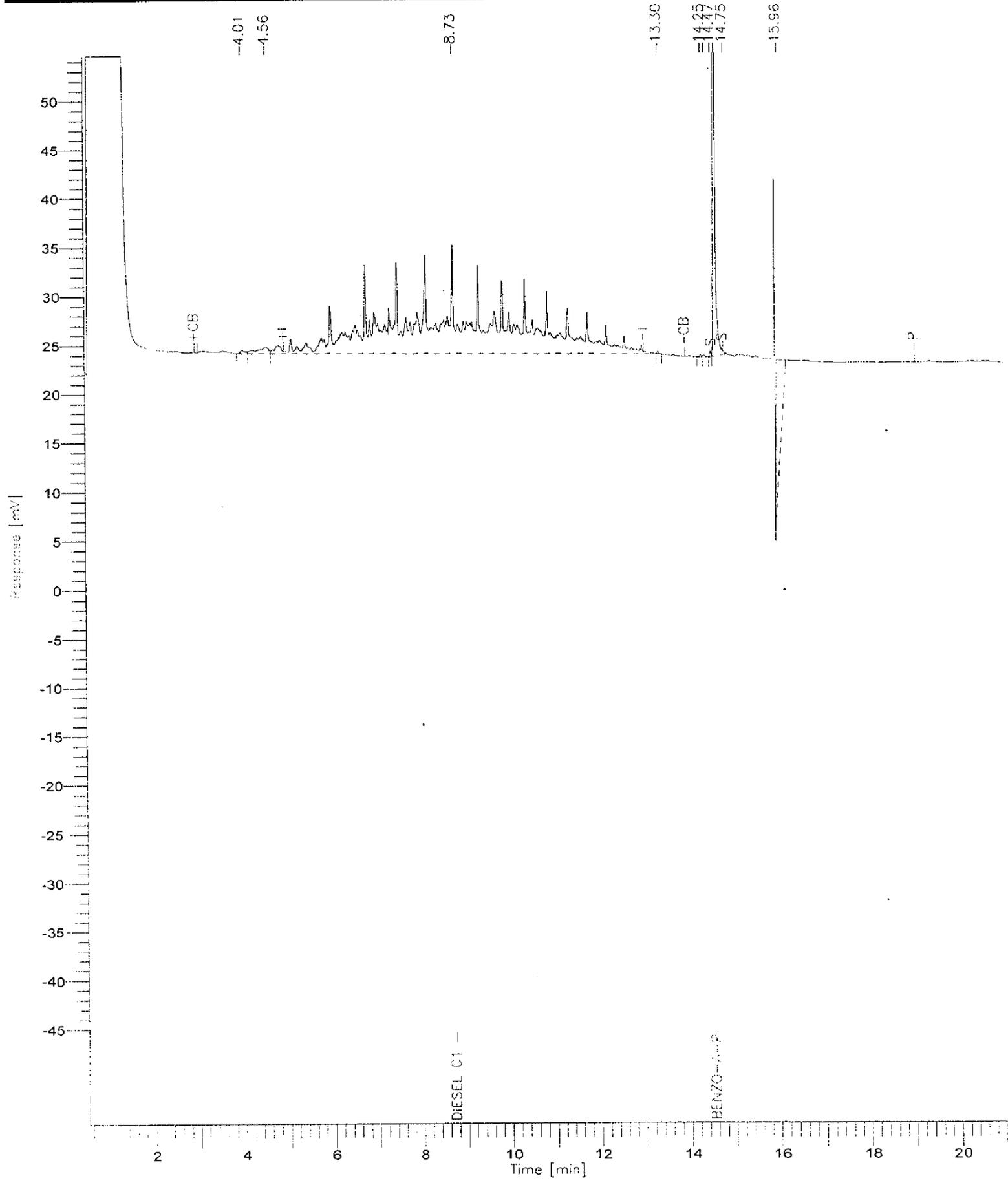
8015B(TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
8.73	DIESEL C10-C24	1054526	104.467	-----	10.0	
14.55	BENZO-A-PYRENE	290804	25.339	202.7	10.0	
		1345331	129.806			

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\DATA_01\D12_024.TX0



Software Version: 4.1<2F12>

Date: 12/14/00 08:02 AM

Sample Name : #TEPH00-220 DIESEL STD 1000 PPM

Data File : C:\TC4\DATA_01\D12_025.RAW Date: 12/13/00 12:11 PM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 25 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calibration performed at level: 3

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
DIESEL C10-C24	8.227	1000.00000	9919222.753378	9919.222753	6.51	5	-----	-----	1	0
BENZO-A-PYRENE	14.550	50.00000	579008.428571	11580.168571	0.01	5	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
DIESEL C10-C24	0.000000	10293.759947	-----	-----	-----	9
BENZO-A-PYRENE	0.000000	11459.941864	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list
- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-220 DIESEL STD 1000 PPM Time : 12/14/00 08:02 AM

Sample Number: 1000 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 12:11 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_025.RAW

Result File : C:\TC4\DATA_01\D12_025.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_025.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

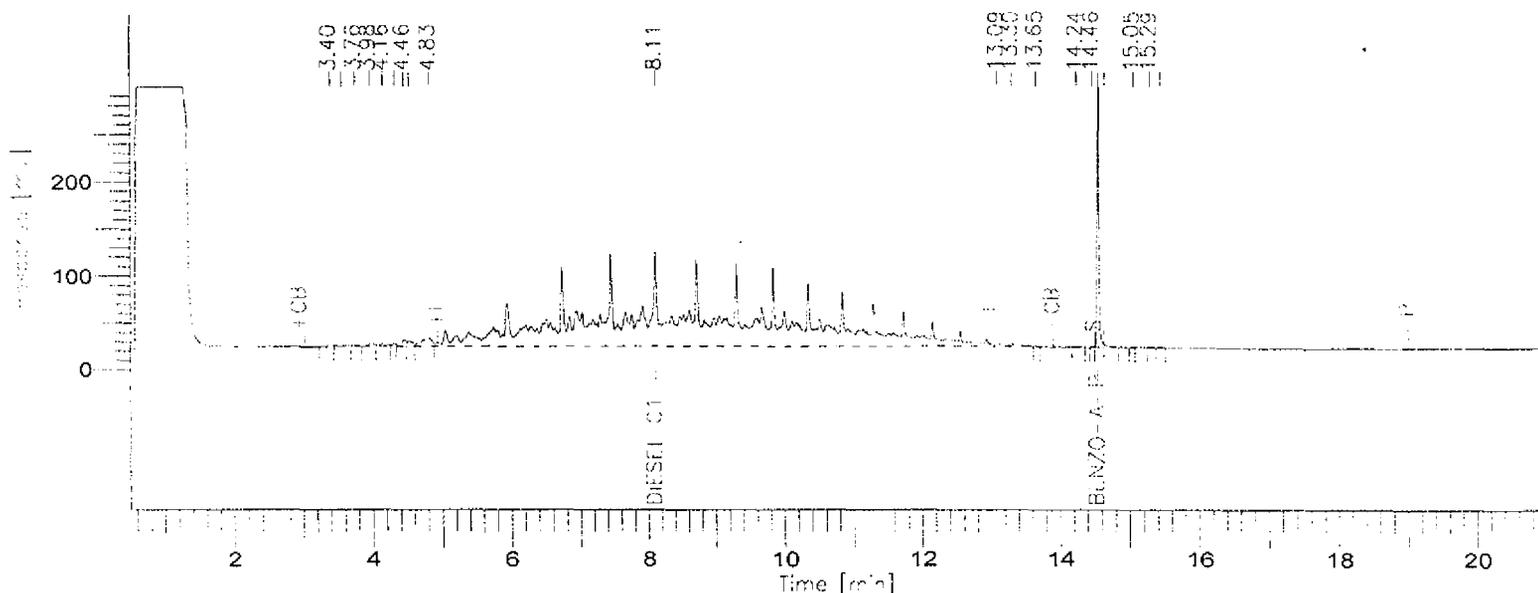
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 20



8015B (TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
8.11	DIESEL C10-C24	9919223	963.615	-----	10.0	
14.55	BENZO-A-PYRENE	579008	50.525	404.2	10.0	
		10498231	1014.140			

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\DATA_01\D12_025.TX0

Software Version: 4.1<2F12>

Date: 12/14/00 08:02 AM

Sample Name : #TEPH00-179 DIESEL STD 2000 PPM

Data File : C:\TC4\DATA_01\D12_026.RAW Date: 12/13/00 12:41 PM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 26 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000 Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calibration performed at level: 4

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
DIESEL C10-C24	8.227	2000.00000	2.01104004e+07	10055.200206	6.51	5	-----	-----	1	0
BENZO-A-PYRENE	14.550	80.00000	940605.600000	11757.570000	0.01	5	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
DIESEL C10-C24	0.000000	10293.759947	-----	-----	-----	9
BENZO-A-PYRENE	0.000000	11449.380801	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list
- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-179 DIESEL STD 2000 PPM Time : 12/14/00 08:02 AM

Sample Number: 2000 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 12:41 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_026.RAW

Result File : C:\TC4\DATA_01\D12_026.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_026.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

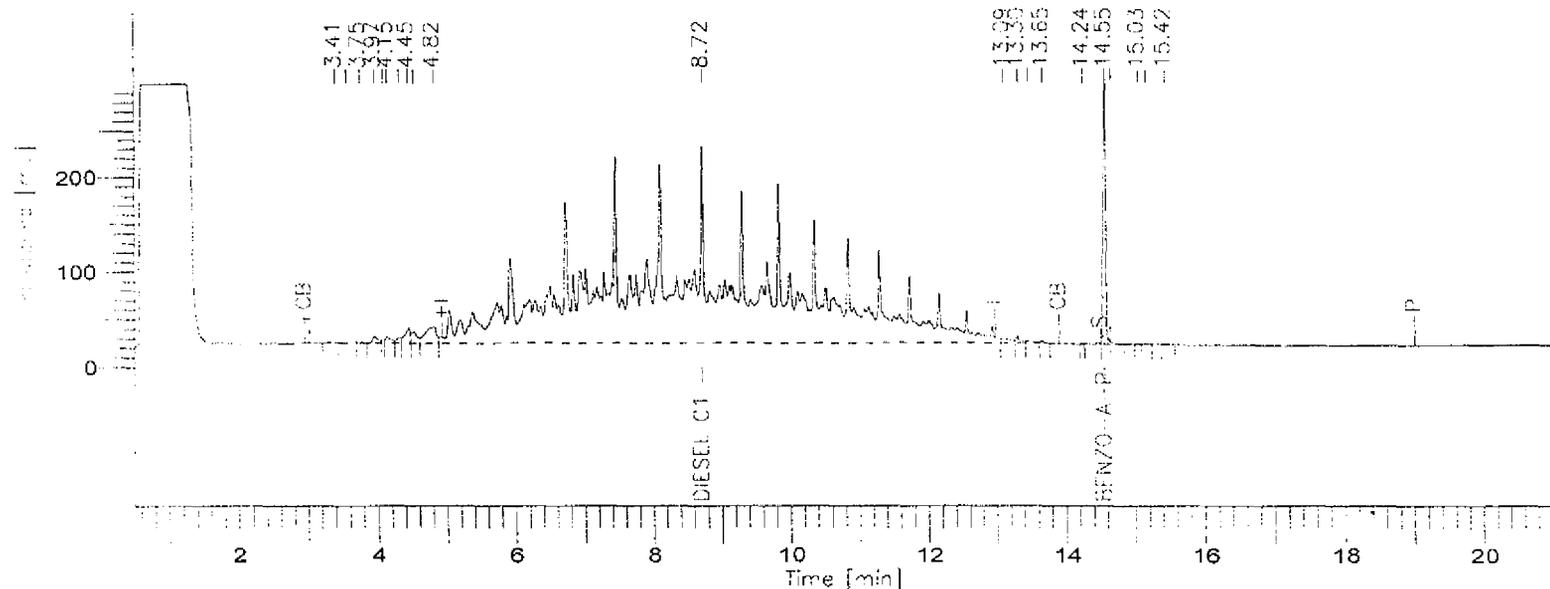
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 21



8015B(TEPH)

GC01/FID: RTX-1

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
8.72	DIESEL C10-C24	20110400	1953.650	-----	10.0	
14.55	BENZO-A-PYRENE	940606	82.153	657.2	10.0	
		21051006	2035.803			

STL - LOS ANGELES

Report stored in ASCII file: C:\TC4\DATA_01\D12_026.TX0

Software Version: 4.1<2F12>

Date: 12/14/00 08:02 AM

Sample Name : #TEPH00-181 DIESEL STD 5000 PPM

Data File : C:\TC4\DATA_01\D12_027.RAW Date: 12/13/00 01:12 PM

Sequence File: C:\TC4\DATA_01\D12.SEQ Cycle: 27 Channel : A

Instrument : GC-FID-01 Rack/Vial: 0/0 Operator:

Sample Amount : 1.0000

Dilution Factor : 1.00

AUTO-CALIBRATION REPORT

Updating method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calibration performed at level: 5

Values will replace previous averages in the method

Retention times in the method will be updated

Reported response values are the method averages.

Component	Retn Time	Vol Adj Amount	Adjusted Response	Calibration Factor	%RSD Time	# Reps	%RSD Amt	%RSD Resp	# Reps	CLT Code
DIESEL C10-C24	8.227	5000.00000	4.82699391e+07	9653.987823	6.51	5	-----	-----	1	0
BENZO-A-PYRENE	14.550	100.00000	1130624.666667	11306.246667	0.01	5	-----	-----	1	0

Confidence Limits Test (CLT) Result Explanations:

- 0 = Insufficient data for outlier test (<3 replicates)
- 1 = Significant outlier (failed at 99.9% 2nd pass)
- 2 = Probable outlier (failed at 95% 1st pass, failed at 95% 2nd pass)
- 3 = Probable outlier (failed at 95% 1st pass, failed at 99.9% 1st pass)
- 4 = Probably not outlier (failed at 95% 1st pass, passed at 99.9% 1st pass)
- 5 = Not outlier (passed at 95% 1st pass)

Calibration Status:

Component	C0	C1	C2	C3	r^2	Status
DIESEL C10-C24	0.000000	10293.759947	-----	-----	-----	9
BENZO-A-PYRENE	0.000000	11440.967801	-----	-----	-----	9

Calibration Status Explanations:

- 1 = Component not calibrated: Rejected based on user criteria
- 2 = Component not calibrated: Was not found in peak/group list
- 3 = Component not calibrated: No ISTD specified in method
- 4 = Component not calibrated: ISTD was not found in peak list
- 5 = Component not calibrated: Uses constant calibration factor
- 6 = Component not calibrated: Uses calibration reference
- 7 = Component not calibrated: No calibration at this level
- 8 = Component not calibrated: Incomplete named group
- 9 = Component calibrated successfully

Software Version: 4.1<2F12>

Sample Name : #TEPH00-181 DIESEL STD 5000 PPM Time : 12/14/00 08:02 AM

Sample Number: 5000 PPM

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 01:12 PM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_027.RAW

Result File : C:\TC4\DATA_01\D12_027.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_027.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

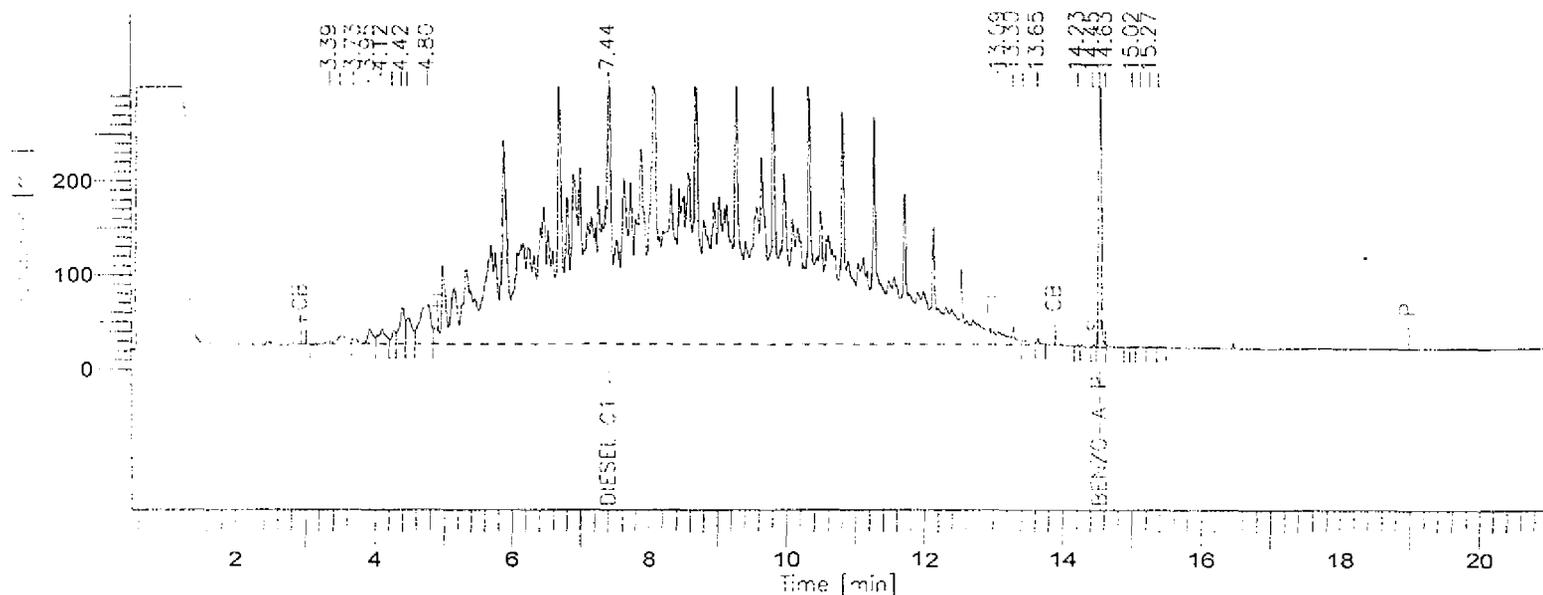
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 22



8015B(TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
7.43	DIESEL C10-C24	48269939	4689.243	-----	10.0	
14.55	BENZO-A-PYRENE	1130625	98.822	790.6	10.0	
		49400564	4788.065			

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\D12_027.TX0

Software Version: 4.1<2F12>

Sample Name : DAILY RT MARKER

Time : 12/14/00 07:40 AM

Sample Number: C8-C40

Study : ICAL 12/13/00

Operator :

Instrument : GC-FID-01

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 2136574898 Data Acquisition Time: 12/13/00 10:40 AM

Delay Time : 0.50 min.

End Time : 21.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA_01\D12_022.RAW

Result File : C:\TC4\DATA_01\D12_022.RST

Inst Method : C:\TC4\DATA_01\METHODS\DBC10C24 from C:\TC4\DATA_01\D12_022.R

Proc Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Calib Method : C:\TC4\DATA_01\METHODS\DBC10C24.mth

Sequence File : C:\TC4\DATA_01\D12.SEQ

Sample Volume : 1.0000 uL

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

Noise Threshold: 50

Area Threshold : 200

Bunch Factor: 1

Multiplier : 1.0000

Divisor : 1.0000

Addend : 0.0000

User1 : TPHDA

User2 :

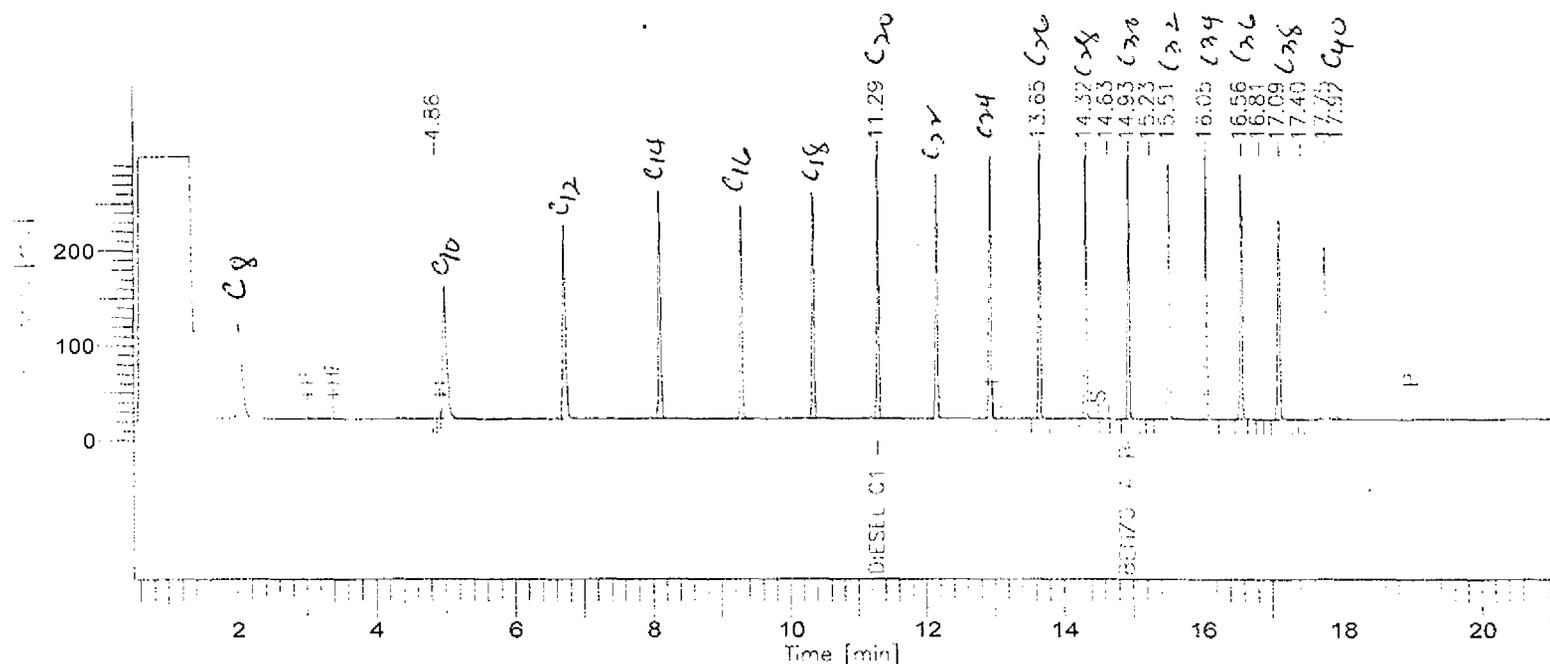
User3 :

User4 :

User5 :

Instrument Conditions:

Total number of peaks detected: 16



8015B(TEPH)

=====
GC01/FID: RTX-1
=====

Time [min]	Component Name	Area [$\mu\text{V}\cdot\text{s}$]	Final Results (ppm)	% SURR REC	REP. LIMIT mg/kg	FN
11.29	DIESEL C10-C24	3934856	361.842	-----	10.0	
14.93	BENZO-A-PYRENE	518547	45.690	365.5	10.0	
		4453403	407.532			

=====
STL - LOS ANGELES
=====

Report stored in ASCII file: C:\TC4\DATA_01\D12_022.TX0

Turbochrom Sequence File : C:\TC4\DATA_01\D12.SEQ

Created by : doug on : 12/12/00 07:31 AM

Edited by : EC on : 12/13/00 03:44 PM

Description :

Number of Times Edited : 9

Sequence File Header Information:

Number of Rows : 109

Instrument Type : 760 / 900 Series Intelligent Interface

Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	DAILY RT MAKER	C8-C40	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	#TEPH00-175 DIE	40 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	#TEPH00-176 DIE	100 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	#TEPH00-220 DIE	1000 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	#TEPH00-179 DIE	2000 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	#TEPH00-181 DIE	5000 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Std Check	#TEPH00-209 SEC	1000 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	#TEPH00-165 RT	10 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	#TEPH00-166 RT	20 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	#TEPH00-216 RT	30 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	#TEPH00-168 RT	40 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	#TEPH00-169 RT	50 PPM	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	MECL2	MECL2	ICAL 12/12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DAILY RT MARKER	C8-C40	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Cal:Replace	#TEPH00-175 DIE	40 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Cal:Replace	#TEPH00-176 DIE	100 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Cal:Replace	#TEPH00-220 DIE	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Cal:Replace	#TEPH00-179 DIE	2000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Cal:Replace	#TEPH00-181 DIE	5000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Std Check	#TEPH00-209 SEC	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	#TEPH00-165 RT	10 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	#TEPH00-166 RT	20 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	#TEPH00-216 RT	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	#TEPH00-168 RT	40 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	#TEPH00-169 RT	50 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Std Check	#TEPH00-220 DIE	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Std Check	#TEPH00-208 RT	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	L050280-MB	DQ53T1AAB	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
38	Sample	L050280-LCS	DQ53T1ACC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
39	Sample	L050280-LCD	DQ53T1ADL	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1000.000	0.000	100.000
40	Sample	L050280-39	DQV5A1AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	1047.000	0.000	100.000
41	Std Check	#TEPH00-220 DIE	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Std Check	#TEPH00-208 RT	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	L080328-MB	DQ8JQ1AAB	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
44	Sample	L080328-LCS	DQ8JQ1ACC	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
45	Sample	L080328-02	DQ55W1AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
46	Sample	L080328-02 MS	DQ55W1AES	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
47	Sample	L080328-02 MSD	DQ55W1AFD	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
48	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
49	Sample	L080328-03	DQ5511AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
50	Sample	L080328-04	DQ5521AA	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	L080328-05	DQ5551AA	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	MECL2	MECL2	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	L080328-06	DQ5561AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
54	Sample	L080328-07	DQ5571AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
55	Std Check	#TEPH00-220 DIE	1000 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Std Check	#TEPH00-208 RT	30 PPM	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	L080328-08	DQ5581AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
58	Sample	L080328-09	DQ5591AA	ICAL 12/13	1.000	1.000	1.000	1.000	5.000	20.000	0.000	100.000
59	Sample	L080328-12	DQ56D1AA	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
60	Sample	L080328-13	DQ56E1AA	ICAL 12/13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Supporting Raw Data

Metals

Lot # EIB 160288

STL Los Angeles
CVAA Data Summary Cover Sheet

Mercury

Instrument ID: Leeman PS200 - M03

Leeman PS200 - M04

Analyst: JGA

Analytical Date: 2/17/01

Data File: HG10217A

Corr. Coeff.: 0.9999

Analysis by SOP: 7470 - 245.1 - CORP-MT-0005SA Rev 1.1

7471 - 245.5 - CORP-MT-0007SA Rev 1.1 ✓

Batch	Lot/Project	Data Upload	Review/Release	Pkg.
1046471	E1B140272	JGA 2/17/01		L3
	E1B160288	↓		L3
	E1B150298	↓		L3

Calibration Stds:

Preparation: Date 2/15/01 Time 1200

Calibration Stock Standard Concentration 10000 mg/L Lot# Hg-060800 Exp. Date 05/02

Intermediate Standard - 10000ug/L - requires 1000X dilution of Stock Std.

Cal Working Standard - 100ug/L - requires 100X dilution of Intermediate Std.

Std.1 - 0.2 ug/L 500X dilution of Cal Working Standard (0.2mL to 100mL)

Std.2 - 0.5 ug/L 200X dilution of Cal Working Standard (0.5mL to 100mL)

Std.3 - 1.0 ug/L 100X dilution of Cal Working Standard (1.0mL to 100mL)

Std.4 - 5.0 ug/L 20X dilution of Cal Working Standard (5.0mL to 100mL)

Std.5 - 10 ug/L 10X dilution of Cal Working Standard (10.0mL to 100mL)

Calibration Check Stds:

CRA - 0.2 ug/L - 500X dilution of Cal Working Standard (0.2mL to 100mL)

ICV Stock Standard Concentration 1000 mg/mL Lot# Hg-061300 Exp. Date 07/2001

ICV Working Standard - 500 ug/L - two dilutions of ICV Stock - first 100X then a 20X

ICV - 2.5 ug/L - 200X dilution of ICV Working Standard (0.5mL to 100mL)

CCV - 5.0 ug/L - 20X dilution of Cal Working Standard (5.0mL to 100mL)

Notes/Comments:

FURNACE DATA SHEET

File: HG10217A Element: HG Instrument: LEEMAN

Start Run Date: 02/17/01 End Run Date: 02/17/01

Correlation Coefficient: ~~-1.000000~~ Slope: 0.000000 Intercept: 0.000000

0.9999 2/17/01 JGA
Concentration Units: ug/L

#	SAMPLE ID	Time	Dil Factor	Sample (Absorb)	Sample (Conc)	%R/R	Flag
1	S0	10:15	1.00		0.0000		
2	S0.2	10:17	1.00		0.2000		
3	S0.5	10:19	1.00		0.5000		
4	S1	10:20	1.00		1.0000		
5	S5	10:22	1.00		5.0000		
6	S10	10:24	1.00		10.0000		
7	ICV	10:27	1.00		2.5700	103	
8	ICB	10:28	1.00		-0.0120		ND
9	DV7PTB	10:30	1.00		-0.0040		ND
10	DV7PTC	10:32	1.00		4.9600	99	0.827
11	DV5NN	10:33	1.00		0.0970		ND
12	DV5NNS	10:35	1.00		1.1000	110	0.183
13	DV5NND	10:37	1.00		1.0300	103	0.172
14	DV5NP	10:39	1.00		0.0370		ND
15	DV5NQ	10:40	1.00		-0.0640		ND
16	DV5NV	10:42	1.00		0.0860		ND
17	DV5N3	10:44	1.00		0.1220		0.028
18	DV5PQ	10:45	1.00		0.0690		ND
19	CCV	10:47	1.00		5.0800	102	
20	CCB	10:49	1.00		-0.0220		ND
21	DV5PR	10:51	1.00		0.2630		0.044
22	DV5PW	10:52	1.00		1.0100		0.168
23	DV5PX	10:54	1.00		0.2020		0.034
24	DV7QG <i>QG 2/17/01</i>	10:56	1.00		0.0710		ND
25	DV7QH <i>JGA</i>	10:58	1.00		0.0920		ND
26	DV7QK	10:59	1.00		0.0620		ND
27	DV7QL	11:01	1.00		0.0910		ND
28	DV7QM	11:03	1.00		0.1020		0.017
29	DV7QN	11:04	1.00		0.3390		0.056
30	CCV	11:06	1.00		5.0600	101	
31	CCB	11:08	1.00		-0.0200		NA
32	DV9F1	11:10	1.00		0.1350		0.022
33	DV9F9	11:12	1.00		0.5900		0.098
34	CCV	11:13	1.00		5.1300	103	
35	CCB	11:15	1.00		-0.0190		ND
36							
37							
38							
39							
40							

Analyst: JGA

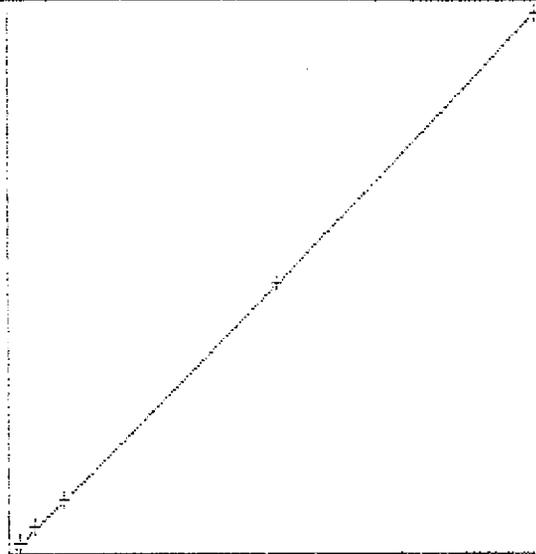
QC Reviewer:

74610217A 2/17/01 *gr*

RunProt: HG-A	Err: hardware inoperable	Mode: Analyze
RunFold: HG10215A	Seq: 32 Batch:	RunPrep: prp7470
Prnt: R/T On	Pump: On	
Rev: 4.2	10:25:10 17 Feb 2001	Xmit: Off Gas: 0.70 LPM
Idle None	User: JGA	A/S: On

CALIBRATION: Line proto: HG-A

	Hg	Accepted
Conc.	Calc.	Dev.
S1	.000	.001 ->quadratic
S2	.200	.204 .004 Wtdlinear
S3	.500	.486 -.014 C
S4	1.00	1.01 .010 Accept a
S5	5.00	5.00 -.001 n
S6	10.0	10.0 .000 C
A	2.3098e-12	r .999998
B	2.28066e-5	C -6.90413e-3



	Mean	SD	
S1	347	0	347
S2	9263	0	9263
S3	21573	0	21573
S4	44371	0	44371
S5	214812	0	214812
S6	420850	0	420850

New cal coefficients stored

10:15:32 17 Feb 2001

Folder: HG10215A
Protocol: HG-A

Page 26

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 26		10:15:32 17 Feb 2001	HG	
Hg	.000	ppb	347					
*** Standard: 2 Rep: 1				Seq: 27		10:17:17 17 Feb 2001	HG	
Hg	.200	ppb	9253					
*** Standard: 3 Rep: 1				Seq: 28		10:19:10 17 Feb 2001	HG	
Hg	.500	ppb	21573					
*** Standard: 4 Rep: 1				Seq: 29		10:20:53 17 Feb 2001	HG	
Hg	1.00	ppb	44371					
*** Standard: 5 Rep: 1				Seq: 30		10:22:59 17 Feb 2001	HG	
Hg	5.00	ppb	214812					
*** Standard: 6 Rep: 1				Seq: 31		10:24:56 17 Feb 2001	HG	
Hg	10.0	ppb	420850					

10:27:05 17 Feb 2001

Folder: H610215A
Protocol: HG-A

Page 27

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: IDV					Seq: 32			10:27:05 17 Feb 2001 HG
Hg	2.57	ppb	.000	2.57				
*** Sample ID: ICB					Seq: 33			10:28:42 17 Feb 2001 HG
Hg	-.012	ppb	.000	-.012				
*** Sample ID: DV7PTB					Seq: 34			10:30:28 17 Feb 2001 HG
Hg	-.004	ppb	.000	-.004				
*** Sample ID: DV7PTC					Seq: 35			10:32:02 17 Feb 2001 HG
Hg	4.96	ppb	.000	4.96				
*** Sample ID: DV5NN					Seq: 36			10:33:53 17 Feb 2001 HG
Hg	.097	ppb	.000	.097				
*** Sample ID: DV5NNS					Seq: 37			10:35:38 17 Feb 2001 HG
Hg	1.10	ppb	.000	1.10				
*** Sample ID: DV5NND					Seq: 38			10:37:17 17 Feb 2001 HG
Hg	1.03	ppb	.000	1.03				
*** Sample ID: DV5NP					Seq: 39			10:39:07 17 Feb 2001 HG
Hg	.037	ppb	.000	.037				
*** Sample ID: DV5NQ					Seq: 40			10:40:45 17 Feb 2001 HG
Hg	-.064	ppb	.000	-.064				
*** Sample ID: DV5NV					Seq: 41			10:42:39 17 Feb 2001 HG
Hg	.086	ppb	.000	.086				
*** Sample ID: DV5NS					Seq: 42			10:44:19 17 Feb 2001 HG
Hg	.122	ppb	.000	.122				
*** Sample ID: DV5PQ					Seq: 43			10:46:03 17 Feb 2001 HG
Hg	.059	ppb	.000	.059				

10:47:47 17 Feb 2001

Folder: HG10215A
Protocol: HG-A

Page 28

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV					Seq: 44	10:47:47	17 Feb 2001	HG
Hg	5.08	ppb	.000	5.08				
*** Sample ID: CCB					Seq: 45	10:49:28	17 Feb 2001	HG
Hg	-.022	ppb	.000	-.022				
*** Sample ID: DV5FR					Seq: 46	10:51:08	17 Feb 2001	HG
Hg	.263	ppb	.000	.263				
*** Sample ID: DV5FW					Seq: 47	10:52:48	17 Feb 2001	HG
Hg	1.01	ppb	.000	1.01				
*** Sample ID: DV5FX					Seq: 48	10:54:27	17 Feb 2001	HG
Hg	.202	ppb	.000	.202				
*** Sample ID: DV7 CA ^{QG}					Seq: 49	10:56:18	17 Feb 2001	HG
Hg	.071	ppb	.000	.071				
*** Sample ID: DV7QH					Seq: 50	10:58:07	17 Feb 2001	HG
Hg	.092	ppb	.000	.092				
*** Sample ID: DV7EK					Seq: 51	10:59:47	17 Feb 2001	HG
Hg	.062	ppb	.000	.062				
*** Sample ID: DV7QL					Seq: 52	11:01:40	17 Feb 2001	HG
Hg	.091	ppb	.000	.091				
*** Sample ID: DV7QM					Seq: 53	11:03:19	17 Feb 2001	HG
Hg	.102	ppb	.000	.102				
*** Sample ID: DV7QN					Seq: 54	11:04:59	17 Feb 2001	HG
Hg	.038	ppb	.000	.038				
*** Sample ID: CCV					Seq: 55	11:06:48	17 Feb 2001	HG
Hg	5.08	ppb	.000	5.08				

11:08:37 17 Feb 2001

Folder: HG10215A
Protocol: HG-A

Page 29

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB					Seq: 55	11:08:37 17 Feb 2001	HG	
Hg	-0.020	ppb	.000	-0.020				
*** Sample ID: DV9F1					Seq: 57	11:10:28 17 Feb 2001	HG	
Hg	.135	ppb	.000	.135				
*** Sample ID: DV9F9					Seq: 58	11:12:17 17 Feb 2001	HG	
Hg	.590	ppb	.000	.590				
*** Sample ID: CCV					Seq: 59	11:13:59 17 Feb 2001	HG	
Hg	5.13	ppb	.000	5.13				
*** Sample ID: CCB					Seq: 60	11:15:41 17 Feb 2001	HG	
Hg	-0.019	ppb	.000	-0.019				

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 2/17/01
Time: 13:39:26

BATCH NUMBER: 1046471

PREP DATE: 2/16/01
DUE DATE 2/20/01

COMP DATE: 2/16/01
INITIALS: *Jr*

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
E1B140272	DV5NN	01	_____g	X <u>0.59</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
	DV5NNS		_____g	<u>0.59</u> g	_____g	_____g
	DV5NND		_____g	<u>0.59</u> g	_____g	_____g
E1B140272	DV5NP	01	_____g	X <u>0.60</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B140272	DV5NQ	01	_____g	X <u>0.61</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B140272	DV5NV	01	_____g	X <u>0.60</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B140272	DV5N3	01	_____g	X <u>0.59</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B140272	DV5PQ	01	_____g	X <u>0.60</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B140272	DV5PR	01	_____g	X <u>0.61</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B140272	DV5PW	01	_____g	X <u>0.61</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B140272	DV5PX	01	_____g	X <u>0.60</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B160288	DV9F1	01	_____g	X <u>0.61</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B160288	DV9F9	01	_____g	X <u>0.59</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B150298	DV7QG	01	_____g	X <u>0.60</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150298	DV7QH	01	_____g	X <u>0.61</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150298	DV7QK	01	_____g	X <u>0.60</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			

BATCH NUMBER: 1046471

PREP DATE: 2/16/01
DUE DATE 2/20/01

COMP DATE: 2/16/01
INITIALS: *J*

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
E1B150298	DV7QL	01	_____g	X <u>0.61</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150298	DV7QM	01	_____g	X <u>0.61</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150298	DV7QN	01	_____g	X <u>0.60</u> g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150000	DV7PTB	01	_____g	X <u>0.60</u> g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	DV7PTC		_____g	<u>0.62</u> g	_____g	_____g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH _____
 MS/MSD AND PDS ON BATCH _____
 CURVE PREPPED FOR HG _____
 CORRECT SPIKES ADDED _____
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: F.V. = 100 ML
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTM/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY _____

ICP ELEMENTS WITHIN THE BATCH:

MS/MSD 1:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 2:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 3:	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK :	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK DUP:	ICP - 1	ICP - 2	GFAA	HG	ODD
STANDARD NUMBERS	_____	_____	_____	_____	_____

**STL LOS ANGELES
Metals Preparation Work Sheet**

Batch: 1046471

The following information applies to all samples associated with the above batch number.

Prepared By: JG

Date/Time Initiated: 2/16/01 1200

Reviewed By: JG

Date/Time Completed: 2/16/01 1230

Water Bath # 6 Temp* 95 °C Thermometer # B-Q024

*Thermometer correction applied. (CF + 0.0°C)

Spike Standards for LCS, MS/MSD and ICV samples (*Volume of Working standard).

	*Volume	Lot #	Exp. Date
1. Hg Cal (MS)	<u>1</u> mL	Hg-060800	05/2002
2. Hg Cal (LCS)	<u>5</u> mL	Hg-060800	05/2002
3. Hg ICV	<u>0.5</u> mL	Hg-061300	07/2001

Preparation Reagents	Volume	Lot #	Analysis Reagents	Volume	Lot#
*HNO ₃	<u>1.25</u> mL	6623 T09A05	NH ₂ OH-HCl-	<u>6.0</u> mL	995700-
*HCl	<u>3.75</u> mL	5587 N41A07	NaCl		986411
KMnO ₄	<u>15</u> mL	987115	SnCl ₂ +	Controlled by	005668-
K ₂ S ₂ O ₈	<u>8.0</u> mL	997008	HCl	instrument	5587 T24A01

* 3 HCl : 1HNO₃ as Aqua Regia

SOP No. SANA-MT-0009, Revision 0

Method 7471A/245.5

Sample size 0.6 g (well mixed)

- Step 1. Standards-Add 5 mL of aqua regia and mix.
Samples-Add 5 mL of DI water and 5 mL of aqua regia and mix.
- Step 2. Heat for 2 min. at 95 °C ±5 °C.
- Step 3. Cool
- Step 4. Add 50 mL of DI water and mix.
- Step 3. Add 15 mL of KMnO₄ and mix.
- Step 4. Add 8 mL of K₂S₂O₈ and mix
- Step 5. Heat at 95 °C ±5 °C for 30 min.
- Step 6. Cool
- Step 7. Add 6 mL of NH₂OH-HCl and mix.
- Step 8. Standards-Add 50 mL of DI water and mix.
Samples- Add 55 mL of DI water and mix.

Standards to be prepared with each batch

To each standard add DI water for a total vol. of 10 mL

Standard	Concentration (mg/L)
Std. 0/ICB/CCB	0
Std. 1	0.0002
Std. 2	0.0005
Std. 3	0.001
Std. 4/CCV	0.005
Std. 5	0.010
ICV	0.0025

Redigestion required - Samples/Reason: _____
Requested By: _____ Date: _____ Completed By: _____ Date: _____

Digestate Chain-of-Custody:

Relinquished By: JG Date: 2/12/01 Received By: JG Date: 2/17/01

**STL Los Angeles
Précis
ICAP Data Summary Cover Sheet**

Instrument ID: ICPT - M01

Analyst: 107

Analytical Date: 02/19/01

Analysis by SOP: 6010B - 200.7 - CORP-MT-0001 Rev 3

Data File: 021901

Batch	Lot/Project	Data Upload	Review/Release	Pkg.
1047380	EIB160214	02/20/01		
	EIB160168			
	EIB160186			
	EIB160235			
1047263	EIB160288			L3
	EIB160298			L3
1048120	EIB160290			L3
	EIB160304			L3
	EIB160307			
1045325	EIB160253			

Standards

Calibration Stds:	Lot #	Calibration Check Stds:	Lot #
1. Blank	020601-T1	ICV	020601-T4
2. STD1	021401-T2	CCV	021401-T5
3. _____	_____	ICSA	020601-T7
4. _____	_____	ICSAB 4-0	020601-T8
5. _____	_____	5. _____	_____
6. _____	_____	6. _____	_____

Notes/Comments:

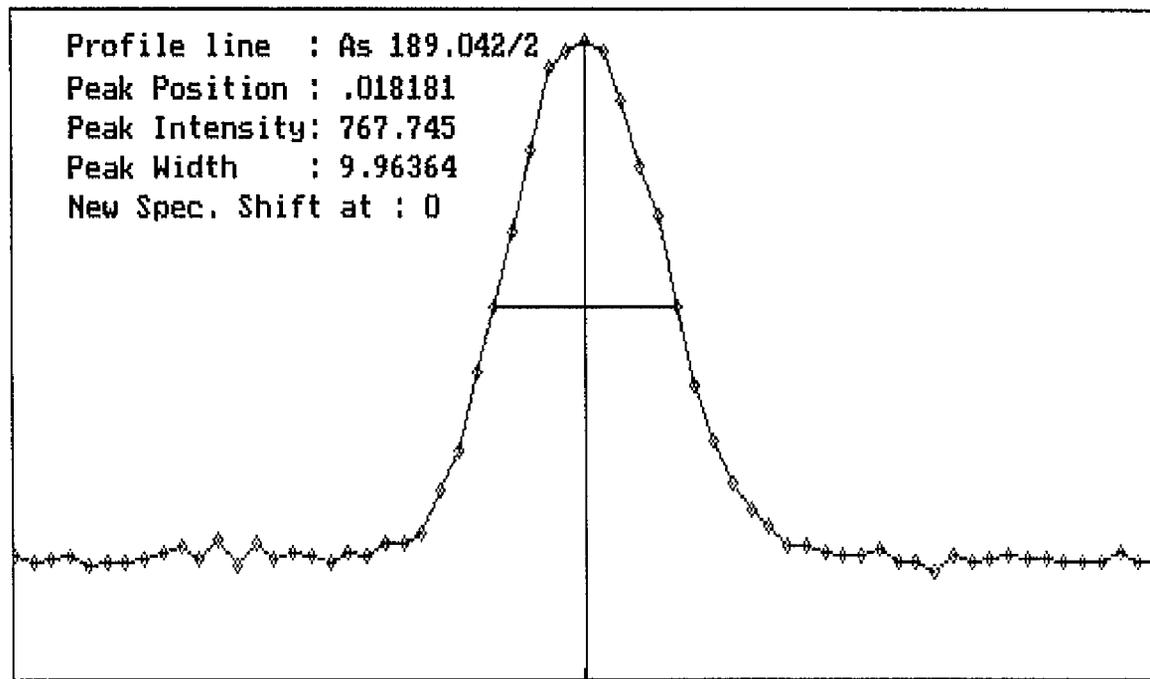
#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STDBLK	P021901	QTESTNAK	02/19/01	14:26		X	IR
2	STD1	P021901	QTESTNAK	02/19/01	14:32		X	IR
3	ICVHP	P021901	QTESTNAK	02/19/01	14:39	KT	S	CONC
4	ICB	P021901	QTESTNAK	02/19/01	14:47	KT	S	CONC
5	ICSA	P021901	QTESTNAK	02/19/01	14:52	KT	S	CONC
6	ICSAB 4.0	P021901	QTESTNAK	02/19/01	15:00	KT	S	CONC
7	TEST-CRI	P021901	QTESTNAK	02/19/01	15:08	KT	S	CONC
8	DV85WB-1047380	P021901	QTESTNAK	02/19/01	15:16	KT	S	CONC
9	DV85WC	P021901	QTESTNAK	02/19/01	15:22	KT	S	CONC
10	DV8TC 5X	P021901	QTESTNAK	02/19/01	15:30	KT	S	CONC
11	DV8DDF	P021901	QTESTNAK	02/19/01	15:38	KT	S	CONC
12	DV8DLF	P021901	QTESTNAK	02/19/01	15:45	KT	S	CONC
13	DV8HK	P021901	QTESTNAK	02/19/01	15:53	KT	S	CONC
14	DV8HKP	P021901	QTESTNAK	02/19/01	16:01	KT	S	CONC
15	CCVT	P021901	QTESTNAK	02/19/01	16:07	KT	S	CONC
16	CCBT	P021901	QTESTNAK	02/19/01	16:15	KT	Q	CONC
17	DV8HKS	P021901	QTESTNAK	02/19/01	16:21	KT	S	CONC
18	DV8HKD	P021901	QTESTNAK	02/19/01	16:28	KT	S	CONC
19	DV81R 4X	P021901	QTESTNAK	02/19/01	16:44	KT	S	CONC
20	DV81T 4X	P021901	QTESTNAK	02/19/01	16:52	KT	S	CONC
21	DV8G4B-1047263	P021901	QTESTNAK	02/19/01	17:00	KT	S	CONC
22	DV8G4C	P021901	QTESTNAK	02/19/01	17:06	KT	S	CONC
23	DV9F1	P021901	QTESTNAK	02/19/01	17:14	KT	S	CONC
24	DV9F9	P021901	QTESTNAK	02/19/01	17:22	KT	S	CONC
25	DV7QG	P021901	QTESTNAK	02/19/01	17:30	KT	S	CONC
26	DV7QGP	P021901	QTESTNAK	02/19/01	17:38	KT	S	CONC
27	CCVT	P021901	QTESTNAK	02/19/01	17:43	KT	S	CONC
28	CCBT	P021901	QTESTNAK	02/19/01	17:51	KT	Q	CONC
29	DV7QGS	P021901	QTESTNAK	02/19/01	17:57	KT	S	CONC
30	DV7QGD	P021901	QTESTNAK	02/19/01	18:05	KT	S	CONC
31	DV7QH	P021901	QTESTNAK	02/19/01	18:13	KT	S	CONC
32	DV7QK	P021901	QTESTNAK	02/19/01	18:21	KT	S	CONC
33	DV7QL	P021901	QTESTNAK	02/19/01	18:29	KT	S	CONC
34	DV7QM	P021901	QTESTNAK	02/19/01	18:37	KT	S	CONC
35	DV7QN	P021901	QTESTNAK	02/19/01	18:45	KT	S	CONC
36	CCVT	P021901	QTESTNAK	02/19/01	18:53	KT	S	CONC
37	CCBT	P021901	QTESTNAK	02/19/01	19:01	KT	Q	CONC
38	DV97DB-1048120	P021901	QTESTNAK	02/19/01	19:07	KT	S	CONC
39	DV97DC	P021901	QTESTNAK	02/19/01	19:15	KT	S	CONC
40	DV9GW	P021901	QTESTNAK	02/19/01	19:23	KT	S	CONC
41	DV9GWP	P021901	QTESTNAK	02/19/01	19:31	KT	S	CONC
42	DV9GWS	P021901	QTESTNAK	02/19/01	19:37	KT	S	CONC
43	DV9GWD	P021901	QTESTNAK	02/19/01	19:45	KT	S	CONC
44	DV9T4	P021901	QTESTNAK	02/19/01	19:53	KT	S	CONC
45	DV9T5	P021901	QTESTNAK	02/19/01	20:01	KT	S	CONC
46	DV9T7	P021901	QTESTNAK	02/19/01	20:09	KT	S	CONC
47	DV9T8	P021901	QTESTNAK	02/19/01	20:17	KT	S	CONC
48	CCVT	P021901	QTESTNAK	02/19/01	20:23	KT	S	CONC
49	CCBT	P021901	QTESTNAK	02/19/01	20:31	KT	Q	CONC
50	DV9T9	P021901	QTESTNAK	02/19/01	20:37	KT	S	CONC
51	DV9VA	P021901	QTESTNAK	02/19/01	20:43	KT	S	CONC
52	DV9V2	P021901	QTESTNAK	02/19/01	20:51	KT	S	CONC
53	DV9WD	P021901	QTESTNAK	02/19/01	20:59	KT	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DV3HG 20X	P021901	QTESTNAK	02/19/01	21:07	KT	S	CONC
55	CCVT	P021901	QTESTNAK	02/19/01	21:13	KT	S	CONC
56	CCBT.	P021901	QTESTNAK	02/19/01	21:21	KT	Q	CONC

968

Profile line : As 189.042/2
Peak Position : .018181
Peak Intensity: 767.745
Peak Width : 9.96364
New Spec. Shift at : 0

Intensity



-31

0

31

Spectrum Shifter Position

02/19/01

Method: QTESTNAK Standard: STDBLK
Run Time: 02/19/01 14:26:19

Elem	Al3082	As1890	Ba4934	Be3130	Cd_tr	Ca3179	Cr_tr
Avge	.06175	-.01455	.00000	-.00299	.01822	.00218	.00381
SDev	.00008	.01056	.00000	.00000	.00036	.00000	.00115
%RSD	.12502	72.601	.00000	.12502	1.9858	.12502	30.185
#1	.06169	-.02201	.00000	-.00299	.01848	.00217	.00462
#2	.06180	-.00708	.00000	-.00299	.01797	.00218	.00299
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Mo2020	Ni2316
Avge	-.00014	.00884	.00014	.00082	.00027	.00027	.00014
SDev	.00019	.00020	.00135	.00000	.00000	.00000	.00019
%RSD	141.42	2.3007	983.99	.12502	.12502	.12502	141.42
#1	-.00027	.00870	-.00082	.00082	.00027	.00027	.00027
#2	.00000	.00898	.00109	.00082	.00027	.00027	.00000
Elem	Ag_tr	Na3302	Tl1908	Ti3349	V_2924	Zn2138	Sn1899
Avge	-.00054	-.00911	-.03182	-.00109	.00054	.00054	-.00041
SDev	.00115	.00134	.00304	.00000	.00038	.00000	.00019
%RSD	212.29	14.652	9.5454	.12502	70.804	.12502	47.252
#1	-.00136	-.01006	-.03397	-.00109	.00027	.00054	-.00027
#2	.00027	-.00817	-.02968	-.00109	.00082	.00054	-.00054
Elem	2068_1	2068_2	2203_1	2203_2	1960_1	1960_2	B_2496
Avge	-.00258	.00122	.01991	.00694	-.01224	.00979	.0001
SDev	.00673	.00057	.01777	.01020	.00117	.00037	.0002
%RSD	260.81	47.029	89.218	146.96	9.5525	3.8034	141.4
#1	-.00734	.00163	.03248	-.00027	-.01141	.01006	.0000
#2	.00218	.00082	.00735	.01416	-.01307	.00953	.0003
Elem	Sr4215	Si2881					
Avge	.0000	.0532					
SDev	.0000	.0001					
%RSD	.0000	.2367					
#1	.0000	.0533					
#2	.0000	.0531					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7353	--	--	--	--	--	--
SDev	9.192388	--	--	--	--	--	--
%RSD	.1250213	--	--	--	--	--	--
#1	7359	--	--	--	--	--	--
#2	7346	--	--	--	--	--	--

Method: QTESTNAK Standard: STD1
Run Time: 02/19/01 14:32:35

Elem	Al3082	As1890	Ba4934	Be3130	Cd_tr	Ca3179	Cr_tr
Avge	15.463	3.2909	3.9981	9.6144	26.522	3.6126	11.517
SDev	.016	.0021	.0142	.0089	.001	.0032	.016
%RSD	.10458	.06437	.35407	.09265	.00459	.08847	.14103
#1	15.474	3.2894	4.0081	9.6081	26.523	3.6103	11.528
#2	15.451	3.2924	3.9881	9.6207	26.522	3.6149	11.505
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Mo2020	Ni2316
Avge	1.6402	3.1950	4.6767	25.840	4.9652	.66839	1.7817
SDev	.0022	.0032	.0074	.069	.0045	.01072	.0046
%RSD	.13594	.09942	.15883	.26514	.09138	1.6030	.25628
#1	1.6417	3.1973	4.6715	25.888	4.9684	.66082	1.7850
#2	1.6386	3.1928	4.6820	25.791	4.9620	.67597	1.7785
Elem	Ag_tr	Na3302	Tl1908	Ti3349	V_2924	Zn2138	Sn1899
Avge	6.7648	3.3962	3.4030	2.5713	2.2954	1.5697	.28698
SDev	.0102	.0012	.0064	.0012	.0007	.0032	.00049
%RSD	.15106	.03578	.18803	.04809	.03104	.20116	.16898
#1	6.7720	3.3953	3.3984	2.5704	2.2949	1.5719	.28732
#2	6.7576	3.3971	3.4075	2.5721	2.2959	1.5675	.28664
Elem	2068_1	2068_2	2203_1	2203_2	1960_1	1960_2	B_2496
Avge	1.7324	.85699	7.3157	3.0836	.41996	.52032	.7847
SDev	.0008	.00225	.0251	.0054	.00541	.00052	.0014
%RSD	.04757	.26248	.34265	.17387	1.2878	.09942	.1757
#1	1.7330	.85858	7.2979	3.0874	.42378	.52069	.7857
#2	1.7318	.85540	7.3334	3.0798	.41613	.51995	.7837
Elem	Sr4215	Si2881					
Avge	6.453	1.621					
SDev	.022	.006					
%RSD	.3484	.3580					
#1	6.469	1.625					
#2	6.438	1.617					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7084	--	--	--	--	--	--
SDev	7.043101	--	--	--	--	--	--
%RSD	.0994213	--	--	--	--	--	--
#1	7079	--	--	--	--	--	--
#2	7089	--	--	--	--	--	--

Method: QTESTNAK

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Pb2203	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Al3082	308.215	STD1	STDBLK	3.25379	-.200910	02/19/01 02:32:35
As1890	189.042	STD1	STDBLK	.303054	.004408	02/19/01 02:32:35
Ba4934	493.409	STD1	STDBLK	1.00047	.000000	02/19/01 02:32:35
Be3130	313.042	STD1	STDBLK	.416066	.001245	02/19/01 02:32:35
Cd_tr	226.502	STD1	STDBLK	.037924	-.000691	02/19/01 02:32:35
Ca3179	317.933	STD1	STDBLK	55.4007	-.120557	02/19/01 02:32:35
Cr_tr	267.716	STD1	STDBLK	.347505	-.001323	02/19/01 02:32:35
Co2286	228.616	STD1	STDBLK	2.44500	.000332	02/19/01 02:32:35
Cu3247	324.753	STD1	STDBLK	1.25507	-.011095	02/19/01 02:32:35
Fe2714	271.441	STD1	STDBLK	10.7727	-.001474	02/19/01 02:32:35
Mg2790	279.078	STD1	STDBLK	7.73566	-.006313	02/19/01 02:32:35
Mn2576	257.610	STD1	STDBLK	.805650	-.000219	02/19/01 02:32:35
Mo2020	202.030	STD1	STDBLK	5.97938	-.001626	02/19/01 02:32:35
Ni2316	231.604	STD1	STDBLK	2.24517	-.000305	02/19/01 02:32:35
Ag_tr	328.068	STD1	STDBLK	.295819	.000161	02/19/01 02:32:35
Na3302	330.232	STD1	STDBLK	1.12392	.022004	02/19/01 02:32:35
Tl1908	190.864	STD1	STDBLK	.584457	.018599	02/19/01 02:32:35
Ti3349	334.941	STD1	STDBLK	1.55535	.001692	02/19/01 02:32:35
V_2924	292.402	STD1	STDBLK	1.74367	-.000949	02/19/01 02:32:35
Zn2138	213.856	STD1	STDBLK	2.56414	-.001395	02/19/01 02:32:35
Sn1899	189.989	STD1	STDBLK	13.9300	.005685	02/19/01 02:32:35
2068_1	206.831	STD1	STDBLK	.556779	.001436	02/19/01 02:32:35
2068_2	206.832	STD1	STDBLK	1.15526	-.001414	02/19/01 02:32:35
2203_1	220.351	STD1	STDBLK	.139422	-.002776	02/19/01 02:32:35
2203_2	220.352	STD1	STDBLK	.321785	-.002234	02/19/01 02:32:35
1960_1	196.021	STD1	STDBLK	2.32312	.028438	02/19/01 02:32:35
1960_2	196.022	STD1	STDBLK	1.90832	-.018687	02/19/01 02:32:35
B_2496	249.678	STD1	STDBLK	5.10850	-.000695	02/19/01 02:32:35
Sr4215	421.552	STD1	STDBLK	.619828	.000000	02/19/01 02:32:35
Si2881	288.158	STD1	STDBLK	2.55138	-.135677	02/19/01 02:32:35

Method: QTESTNAK Sample Name: ICVHP

Operator: KT

Run Time: 02/19/01 14:39:01

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99546	.98364	.99259	9.9089	.99698	1.0185	1.0429
SDev	.00047	.00503	.00601	.0306	.00462	.0053	.0008
%RSD	.04752	.51125	.60578	.30857	.46395	.52506	.07358
#1	.99512	.98008	.98834	9.9305	1.0003	1.0223	1.0434
#2	.99579	.98719	.99684	9.8873	.99371	1.0147	1.0423
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	11.000	1.1000	1.1000	1.1000
Low	.90000	.90000	.90000	9.0000	.90000	.90000	.90000
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0213	41.445	1.0363	1.0165	.97817	10.361	39.133
SDev	.0041	.014	.0042	.0043	.00483	.013	.265
%RSD	.40037	.03265	.40298	.42501	.49416	.12938	.67692
#1	1.0242	41.435	1.0393	1.0196	.98158	10.370	39.320
#2	1.0184	41.454	1.0334	1.0135	.97475	10.351	38.946
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	44.000	1.1000	1.1000	1.1000	11.000	44.000
Low	.90000	36.000	.90000	.90000	.90000	9.0000	36.000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0501	1.0016	1.0348	.38958	38.168	5.1294	1.0423
SDev	.0040	.0049	.0059	.00073	.043	.0050	.0029
%RSD	.38214	.48856	.56567	.18712	.11146	.09839	.27945
#1	1.0529	.99817	1.0390	.39010	38.138	5.1330	1.0444
#2	1.0473	1.0051	1.0307	.38907	38.198	5.1259	1.0403
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	.44000		5.5000	1.1000
Low	.90000	.90000	.90000	.36000		4.5000	.90000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avg	1.0254	1.0143	.98463	.99217	.99343	.99291	.99673
SDev	.0013	.0046	.01337	.00824	.00155	.00222	.00040
%RSD	.12702	.45653	1.3575	.83063	.15598	.22390	.04020
#1	1.0263	1.0176	.99408	.98634	.99234	.99134	.99701
#2	1.0244	1.0111	.97518	.99800	.99453	.99448	.99644
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1.1000	1.1000	1.1000				
Low	.90000	.90000	.90000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.97669	.98711	.9960	1.030	.9080		
SDev	.00115	.00696	.0042	.005	.0099		
%RSD	.11808	.70547	.4215	.4955	1.092		
#1	.97588	.98218	.9989	1.034	.9150		
#2	.97751	.99203	.9930	1.027	.9009		
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass		
High			1.100		1.100		
Low			.9000		.9000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7422	--	--	--	--	--	--
SDev	19.37466	--	--	--	--	--	--
%RSD	.2610429	--	--	--	--	--	--
#1	7436	--	--	--	--	--	--
#2	7408	--	--	--	--	--	--

Method: QTESTNAK Sample Name: ICB

Operator: KT

Run Time: 02/19/01 14:47:01

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00233	.00011	.00154	.00718	.00190	.00027	.00003
SDev	.00027	.00124	.00107	.00158	.00034	.00000	.00000
%RSD	11.452	1170.0	69.429	22.039	17.838	.15788	6.8857
#1	-.00252	.00098	.00079	.00607	.00166	.00027	.00003
#2	-.00214	-.00077	.00230	.00830	.00215	.00027	.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00030	.01230	.00025	.00033	-.00023	.00281	.00193
SDev	.00013	.00021	.00026	.00000	.00022	.00205	.00294
%RSD	43.182	1.7099	103.51	.19820	96.523	72.885	152.40
#1	-.00021	.01215	.00044	.00033	-.00007	.00136	.00401
#2	-.00039	.01245	.00007	.00033	-.00038	.00427	-.00015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	-.00003	.00029	.00008	.02233	.00583	.00024
SDev	.00000	.00225	.00000	.00022	.01349	.00399	.00030
%RSD	7.5817	6490.8	.32219	272.90	60.412	68.482	122.29
#1	-.00000	.00156	.00029	.00024	.03188	.00865	.00045
#2	-.00000	-.00163	.00029	-.00008	.01279	.00300	.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00049	-.00003	-.00359	.00156	.00151	.00184	-.00442
SDev	.00066	.00000	.00786	.00172	.00023	.00149	.00114
%RSD	135.51	11.287	219.03	110.38	15.266	80.831	25.914
#1	-.00002	-.00003	-.00915	.00034	.00167	.00290	-.00523
#2	-.00095	-.00003	.00197	.00277	.00135	.00079	-.00361
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.00770	-.00369	.0020	.0001	<.0000		
SDev	.00128	.00249	.0000	.0001	.0027		
%RSD	16.630	67.595	.2121	141.4	684.2		
#1	.00680	-.00192	.0020	.0002	.0015		
#2	.00861	-.00545	.0020	.0000	<.0000		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			.2000	.0500	.5000		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7506	--	--	--	--	--	--
SDev	11.85094	--	--	--	--	--	--
%RSD	.1578909	--	--	--	--	--	--
#1	7514	--	--	--	--	--	--
#2	7497	--	--	--	--	--	--

Method: QTESTNAK Sample Name: ICSA
 Run Time: 02/19/01 14:52:54
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: KT

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00371	-.00353	-.00162	502.12	-.00373	.00089	.00014
SDev	.00123	.00078	.00015	.35	.00231	.00000	.00000
%RSD	33.203	22.061	9.1045	.06883	61.788	.25983	2.2219
#1	-.00284	-.00298	-.00151	502.36	-.00210	.00088	.00014
#2	-.00458	-.00408	-.00172	501.87	-.00536	.00089	.00014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.01000	.06000	600.00	.02000	.02000	.01000
Low	-.01000	-.01000	-.06000	400.00	-.02000	-.02000	-.01000
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00253	477.98	-.00221	.00074	-.00179	195.35	492.70
SDev	.00003	.48	.00027	.00000	.00001	.15	.21
%RSD	1.1137	.10015	12.265	.57949	.64341	.07614	.04251
#1	.00251	477.64	-.00202	.00074	-.00179	195.24	492.85
#2	.00255	478.32	-.00241	.00075	-.00178	195.45	492.55
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	600.00	.02000	.05000	.02500	240.00	600.00
Low	-.01000	400.00	-.02000	-.05000	-.02500	160.00	400.00
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00296	-.00044	-.00031	-.00080	-.29253	.00372	-.00106
SDev	.00018	.00128	.00000	.00000	.04305	.00500	.00001
%RSD	5.9330	289.00	.00000	.30787	14.717	134.49	.66769
#1	-.00283	.00046	-.00031	-.00080	-.26209	.00018	-.00106
#2	-.00308	-.00135	-.00031	-.00080	-.32297	.00725	-.00107
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.02000	5.0000	.02000	.05000
Low	-.01500	-.04000	-.04000	-.02000	-5.0000	-.02000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00121	.00476	-.00282	-.00323	.00162	-.00536	-.00288
SDev	.00037	.00049	.00581	.00014	.00071	.00111	.00129
%RSD	30.974	10.219	206.08	4.1801	43.954	20.727	44.796
#1	-.00147	.00511	.00129	-.00333	.00212	-.00458	-.00197
#2	-.00094	.00442	-.00692	-.00314	.00112	-.00615	-.00379
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	-.01686	.00313	.0076	.0153	.0162		
SDev	.00039	.00136	.0011	.0001	.0012		
%RSD	2.3076	43.432	14.32	.5870	7.441		
#1	-.01714	.00409	.0068	.0154	.0170		
#2	-.01659	.00217	.0084	.0152	.0153		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			.2000	.0500	.5000		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6771	--	--	--	--	--	--
SDev	17.59273	--	--	--	--	--	--
%RSD	.2598370	--	--	--	--	--	--
#1	6783	--	--	--	--	--	--
#2	6758	--	--	--	--	--	--

Method: QTESTNAK Sample Name: ICSAB 4.0

Operator: KT

Run Time: 02/19/01 15:00:53

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04839	.05060	.62787	503.30	.09959	.51902	.51382
SDev	.00122	.00424	.00038	.73	.00063	.00086	.00016
%RSD	2.5176	8.3812	.05989	.14470	.62734	.16612	.03042
#1	.04753	.04760	.62761	503.81	.09915	.51963	.51371
#2	.04925	.05360	.62814	502.78	.10003	.51841	.51393
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	.06000	.72000	600.00	.12000	.60000	.60000
Low	.04000	.04000	.48000	400.00	.08000	.40000	.40000
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97862	477.74	.49202	.50089	.54628	195.55	493.33
SDev	.00048	.52	.00073	.00151	.00088	.02	.86
%RSD	.04943	.10969	.14819	.30150	.16080	.01185	.17439
#1	.97828	478.11	.49254	.49982	.54690	195.56	493.94
#2	.97896	477.37	.49151	.50196	.54566	195.53	492.72
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	600.00	.60000	.60000	.60000	240.00	600.00
Low	.80000	400.00	.40000	.40000	.40000	160.00	400.00
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50486	1.0101	.98449	.21481	H12.818	.10224	-.00094
SDev	.00013	.0129	.00063	.00001	.115	.00264	.00033
%RSD	.02638	1.2773	.06379	.00575	.89860	2.5828	35.175
#1	.50477	1.0010	.98493	.21482	H12.900	.10410	-.00117
#2	.50496	1.0192	.98404	.21480	H12.737	.10037	-.00070
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.60000	1.2000	1.2000	.24000	12.000	.12000	.10000
Low	.40000	.80000	.80000	.16000	8.0000	.08000	-.10000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48898	1.0495	-.00697	.62877	.62609	.04354	.05081
SDev	.00080	.0012	.01743	.00019	.00074	.00504	.00434
%RSD	.16416	.10976	250.17	.03099	.11802	11.567	8.5434
#1	.48841	1.0503	-.01929	.62863	.62557	.04710	.04774
#2	.48955	1.0487	.00536	.62890	.62661	.03998	.05388
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	1.2000	.20000				
Low	.40000	.80000	-.20000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.04048	.05565	.0073	.0153	.0226		
SDev	.00003	.00637	.0000	.0000	.0023		
%RSD	.08094	11.454	.2954	.2063	10.33		
#1	.04050	.05114	.0073	.0154	.0209		
#2	.04045	.06016	.0073	.0153	.0242		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			.4000	.1000	1.000		
Low			-.4000	-.1000	-1.000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6787	--	--	--	--	--	--
SDev	14.00092	--	--	--	--	--	--
%RSD	.2062873	--	--	--	--	--	--
#1	6777	--	--	--	--	--	--
#2	6797	--	--	--	--	--	--

Method: QTESTNAK Sample Name: TEST-CRI

Operator: KT

Run Time: 02/19/01 15:08:53

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00417	.01236	.01902	.39804	.01778	.02011	.01012
SDev	.00012	.00056	.00239	.00753	.00360	.00009	.00003
%RSD	2.7495	4.5296	12.556	1.8920	20.255	.45651	.34934
#1	L.00425	.01197	.01733	.40337	.01523	.02018	.01015
#2	L.00409	H.01276	.02071	.39272	.02032	.02005	.01010
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00750	.01250	.02500	.50000	.02500	.02500	.01250
Low	.00450	.00750	.01500	.30000	.01500	.01500	.00750
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00375	10.240	.01000	.09828	.04687	.19887	9.3169
SDev	.00004	.023	.00038	.00001	.00043	.00305	.0659
%RSD	1.1352	.22714	3.8213	.01112	.91965	1.5351	.70738
#1	.00378	10.257	.00973	.09827	.04717	.20103	9.3635
#2	.00372	10.224	.01027	.09829	.04656	.19671	9.2703
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	12.500	.01250	.12500	.06250	.25000	12.500
Low	.00300	7.5000	.00750	.07500	.03750	.15000	7.5000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03142	.07879	.08129	.00959	9.3261	.01640	.00024
SDev	.00000	.00151	.00088	.00016	.0544	.00264	.00030
%RSD	.00067	1.9182	1.0781	1.6348	.58302	16.079	124.92
#1	.03142	.07772	.08191	.00948	9.3645	L.01453	.00045
#2	.03142	.07986	.08067	.00970	9.2876	.01826	.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	NOCHECK
High	.03750	.10000	.10000	.01250		.02500	
Low	.02250	.06000	.06000	.00750		.01500	
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.09843	.04055	L-.00174	.01812	.02083	.00632	.00310
SDev	.00018	.00021	.00004	.00385	.00054	.00045	.00040
%RSD	.18139	.50776	2.0260	21.245	2.5826	7.1957	12.875
#1	.09856	.04041	L-.00172	.01540	.02121	.00599	.00338
#2	.09831	.04070	L-.00177	.02084	.02045	.00664	.00282
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.12500	.05000	.25000				
Low	.07500	.03000	.15000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.02063	.00824	L.0000	L.0002	L.0342		
SDev	.00215	.00023	.0010	.0000	.0056		
%RSD	10.422	2.8369	446.2	.4801	16.45		
#1	.01911	.00840	L.0005	L.0002	L.0302		
#2	.02215	.00807	L.0000	L.0002	L.0381		
Errors	NOCHECK	NOCHECK	LC Low	LC Low	LC Low		
High			.5000	.1250	1.250		
Low			.3000	.0750	.7500		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7512	--	--	--	--	--	--
SDev	36.06245	--	--	--	--	--	--
%RSD	.4800658	--	--	--	--	--	--
#1	7537	--	--	--	--	--	--
#2	7486	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV85WB-1047380 Operator: KT
 Run Time: 02/19/01 15:16:53
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00081	.00021	.00169	.02520	-.00122	.00216	.00102
SDev	.00006	.00401	.00000	.00805	.00025	.00191	.00063
%RSD	7.2138	1932.0	.11852	31.938	20.204	88.559	61.977
#1	-.00077	.00304	.00169	.03089	-.00140	.00351	.00147
#2	-.00085	-.00263	.00169	.01951	-.00105	.00081	.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00053	.11077	.00369	.00231	.00091	.05058	.09387
SDev	.00049	.03229	.00193	.00187	.00075	.01230	.09167
%RSD	91.002	29.154	52.444	80.912	82.675	24.317	97.653
#1	.00088	.13361	.00505	.00363	.00144	.05928	.15869
#2	.00019	.08794	.00232	.00099	.00038	.04188	.02905
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00271	.00080	.00212	.00052	.38582	-.00376	.00127
SDev	.00170	.00115	.00172	.00028	.04580	.00149	.00059
%RSD	62.523	144.06	81.145	54.372	11.871	39.714	46.402
#1	.00391	.00161	.00333	.00072	.41820	-.00270	.00169
#2	.00151	-.00001	.00090	.00032	.35343	-.00481	.00086
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00046	.00550	.00193	.00270	-.00034	.00317	-.00280
SDev	.00067	.00196	.00001	.00011	.00022	.00191	.00104
%RSD	145.50	35.701	.57721	3.8893	64.555	60.207	37.241
#1	.00093	.00689	.00192	.00278	-.00049	.00182	-.00206
#2	-.00001	.00411	.00194	.00263	-.00018	.00453	-.00353
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm
Avge	.00247	-.00092	.0021	.0020	.0159
SDev	.00391	.00405	.0019	.0019	.0029
%RSD	157.99	438.82	94.90	94.44	18.00

#1	.00524	.00194	.0034	.0033	.0179
#2	-.00029	-.00379	.0007	.0007	.0138

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7425	--	--	--	--	--	--
SDev	20.81718	--	--	--	--	--	--
%RSD	.2803555	--	--	--	--	--	--
#1	7411	--	--	--	--	--	--
#2	7440	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV85WC

Operator: KT

Run Time: 02/19/01 15:22:45

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47594	1.8456	.48735	1.7639	1.8952	2.0348	.05302
SDev	.00144	.0150	.00101	.0041	.0040	.0063	.00003
%RSD	.30172	.81261	.20630	.23111	.21292	.30831	.05407
#1	.47695	1.8562	.48664	1.7667	1.8980	2.0392	.05304
#2	.47492	1.8350	.48806	1.7610	1.8923	2.0304	.05300
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	2.4000	.60000	2.4000	2.4000	2.4000	.06000
Low	.40000	1.6000	.40000	1.6000	1.6000	1.6000	.04250
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05178	L.05936	.21023	.51690	.24696	1.0303	L.01440
SDev	.00017	.00093	.00042	.00062	.00037	.0015	.00018
%RSD	.32297	1.5669	.20066	.11933	.15065	.14819	1.2756
#1	.05190	L.06002	.21053	.51646	.24722	1.0314	L.01427
#2	.05167	L.05871	.20994	.51733	.24669	1.0292	L.01453
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.06000	60.000	.24000	.60000	.30000	1.2000	60.000
Low	.04000	40.000	.17000	.40000	.20000	.85000	40.000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52299	.98161	.51251	.04837	.48178	1.8761	L.00038
SDev	.00024	.00983	.00135	.00031	.09220	.0052	.00001
%RSD	.04519	1.0015	.26404	.63423	19.136	.27917	1.7353
#1	.52283	.97466	.51347	.04859	.41659	1.8724	L.00038
#2	.52316	.98856	.51155	.04815	.54698	1.8798	L.00039
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Low
High	.60000	1.2000	.60000	.06000		2.4000	1.2000
Low	.40000	.80000	.40000	.04000		1.6000	.80000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avg	.50771	.49928	L-.00004	.48699	.48807	.47552	.47614
SDev	.00140	.00085	.00270	.00238	.00175	.00484	.00026
%RSD	.27495	.16950	6796.0	.48857	.35784	1.0184	.05562
#1	.50672	.49868	L-.00195	.48531	.48931	.47895	.47596
#2	.50870	.49988	L.00187	.48867	.48684	.47210	.47633
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	.60000	2.4000				
Low	.42500	.42500	1.6000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	1.8288	1.8539	.0024	L.0002	L.0469		
SDev	.0088	.0181	.0000	.0000	.0009		
%RSD	.48356	.97468	.9355	.5157	2.006		
#1	1.8351	1.8667	.0024	L.0002	L.0476		
#2	1.8226	1.8411	.0024	L.0002	L.0463		
Errors	NOCHECK	NOCHECK	NOCHECK	LC Low	LC Low		
High				1.200	12.00		
Low				.8000	8.000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7377	--	--	--	--	--	--
SDev	38.04221	--	--	--	--	--	--
%RSD	.5156713	--	--	--	--	--	--
#1	7350	--	--	--	--	--	--
#2	7404	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8TC 5X

Operator: KT

Run Time: 02/19/01 15:30:44

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00012	.00217	.00187	.09085	-.00154	.00032	.00046
SDev	.00000	.00084	.00086	.00386	.00319	.00000	.00009
%RSD	3.1731	38.590	46.132	4.2517	207.56	.38988	19.351
#1	-.00012	.00276	.00248	.09358	.00072	.00032	.00052
#2	-.00013	.00158	.00126	.08812	-.00379	.00032	.00039
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	48.006	.00401	.00183	.01205	.03682	.40630
SDev	.00037	.116	.00000	.00001	.00011	.00707	.00203
%RSD	366.28	.24137	.10213	.37388	.91662	19.218	.50010
#1	-.00016	47.924	.00401	.00184	.01213	.03181	.40774
#2	.00036	48.088	.00401	.00183	.01197	.04182	.40487
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00693	4.4446	.33309	.00017	2554.0	.00688	.00169
SDev	.00016	.0605	.00280	.00034	1.3	.00090	.00000
%RSD	2.2505	1.3604	.84066	199.11	.05033	13.020	.00005
#1	.00682	4.4018	.33111	-.00007	2554.9	.00752	.00169
#2	.00704	4.4873	.33507	.00041	2553.1	.00625	.00169
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01013	.00547	.00568	.00045	.00472	.00110	-.00073
SDev	.00040	.00053	.00000	.00014	.00231	.00320	.00161
%RSD	3.9082	9.7386	.00222	30.996	49.018	292.44	219.26
#1	.00985	.00509	.00568	.00055	.00635	-.00117	.00040
#2	.01041	.00585	.00568	.00035	.00308	.00336	-.00187
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.01287	-.00318	.2747	.1892	.2008		
SDev	.00111	.00181	.0036	.0005	.0007		
%RSD	8.6332	56.981	1.307	.2832	.3633		
#1	.01209	-.00190	.2722	.1888	.2013		
#2	.01366	-.00445	.2772	.1896	.2003		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6195	--	--	--	--	--	--
SDev	24.15488	--	--	--	--	--	--
%RSD	.3898791	--	--	--	--	--	--
#1	6178	--	--	--	--	--	--
#2	6213	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8DDF

Operator: KT

Run Time: 02/19/01 15:38:44

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00172	.00124	.00095	.01729	-.00282	.02177	.00062
SDev	.00105	.00033	.00172	.00584	.00373	.00119	.00057
%RSD	61.318	26.703	181.58	33.769	132.34	5.4455	92.129
#1	.00246	.00148	.00216	.02142	-.00545	.02261	.00102
#2	.00097	.00101	-.00027	.01316	-.00018	.02093	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	34.822	.00253	.00167	.00273	.01619	18.588
SDev	.00055	.017	.00115	.00190	.00050	.00825	.000
%RSD	138.32	.04850	45.537	113.79	18.258	50.941	.00258
#1	.00078	34.810	.00335	.00302	.00308	.02203	18.589
#2	.00001	34.834	.00172	.00033	.00238	.01036	18.588
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24976	.00579	.01979	.00026	16.455	-.00735	.00084
SDev	.00028	.00350	.00133	.00017	.069	.00181	.00060
%RSD	.11323	60.474	6.7039	67.508	.41875	24.561	72.435
#1	.24956	.00826	.02073	.00038	16.504	-.00608	.00126
#2	.24996	.00331	.01886	.00013	16.406	-.00863	.00041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00023	.02219	-.00391	.00092	.00101	.00462	.00027
SDev	.00034	.00051	.00272	.00335	.00155	.00277	.00019
%RSD	150.85	2.2990	69.608	365.82	153.99	60.026	72.416
#1	.00002	.02255	-.00583	.00328	-.00009	.00658	.00041
#2	-.00047	.02183	-.00198	-.00145	.00210	.00266	.00013
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	-.00009	.00191	.4918	.2479	13.41		
SDev	.00500	.00299	.0016	.0002	.04		
%RSD	5290.9	156.74	.3301	.0752	.3000		
#1	-.00363	.00403	.4906	.2480	13.39		
#2	.00344	-.00021	.4929	.2478	13.44		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7261	--	--	--	--	--	--
SDev	5.459016	--	--	--	--	--	--
%RSD	.0751804	--	--	--	--	--	--
#1	7257	--	--	--	--	--	--
#2	7265	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8DLF

Operator: KT

Run Time: 02/19/01 15:45:59

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00396	-.00001	.00362	.01800	.00908	.02522	.00016
SDev	.00005	.00333	.00190	.00150	.00050	.00002	.00007
%RSD	1.2134	54686.	52.505	8.3137	5.5518	.09173	47.057
#1	.00392	-.00236	.00227	.01906	.00944	.02520	.00021
#2	.00399	.00235	.00496	.01694	.00873	.02524	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	71.470	.00119	.00096	.00222	4.9356	23.677
SDev	.00018	.041	.00009	.00000	.00040	.0063	.020
%RSD	240.77	.05772	7.6602	.46331	17.958	.12848	.08279
#1	.00020	71.440	.00125	.00096	.00194	4.9401	23.663
#2	-.00005	71.499	.00112	.00096	.00250	4.9312	23.691
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.8919	.00710	.00372	-.00027	25.386	-.00423	.00041
SDev	.0236	.00227	.00047	.00029	.037	.00270	.00001
%RSD	.26502	32.010	12.504	109.31	.14409	63.669	2.1589
#1	8.8753	.00549	.00405	-.00006	25.412	-.00233	.00040
#2	8.9086	.00871	.00339	-.00048	25.360	-.00614	.00041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00107	.03222	-.00212	.00408	.00269	.00622	.00282
SDev	.00035	.00027	.00005	.00173	.00224	.00253	.00133
%RSD	32.860	.83380	2.4756	42.380	83.206	40.593	47.225
#1	.00132	.03203	-.00216	.00286	.00111	.00801	.00188
#2	.00082	.03241	-.00208	.00530	.00428	.00444	.00377
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.00056	-.00029	.2083	.5897	18.20		
SDev	.00062	.00469	.0004	.0009	.01		
%RSD	112.11	1633.6	.2056	.1584	.0582		
#1	.00012	-.00360	.2086	.5891	18.19		
#2	.00100	.00303	.2080	.5904	18.20		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7259	--	--	--	--	--	--
SDev	49.44085	--	--	--	--	--	--
%RSD	.6810635	--	--	--	--	--	--
#1	7224	--	--	--	--	--	--
#2	7294	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8HK

Operator: KT

Run Time: 02/19/01 15:53:59

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01977	-.00298	.00274	.08665	-.00213	.02078	.00040
SDev	.00033	.00374	.00138	.00660	.00131	.00011	.00009
%RSD	1.6716	125.58	50.317	7.6186	61.712	.53713	22.257
#1	.01953	L-.00563	.00176	.09132	-.00120	.02086	.00046
#2	.02000	-.00033	.00371	.08198	-.00305	.02070	.00033
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	112.56	.00416	.00718	.01922	8.4574	307.08
SDev	.00033	.06	.00026	.00004	.00072	.0049	2.54
%RSD	61.718	.05337	6.3049	.51729	3.7412	.05800	.82603
#1	.00078	112.52	.00434	.00720	.01973	8.4539	305.29
#2	.00030	112.60	.00397	.00715	.01872	8.4608	308.88
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.67462	.01711	.01206	.00032	1645.8	.00067	.00022
SDev	.00641	.00143	.00057	.00046	2.3	.00335	.00001
%RSD	.95074	8.3361	4.6930	144.40	.14081	500.11	3.5609
#1	.67008	.01811	.01246	.00065	1647.5	-.00170	.00022
#2	.67915	.01610	.01166	-.00001	1644.2	.00304	.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00173	.92855	.00108	.00146	.00530	.02638	.01647
SDev	.00000	.00755	.00002	.00247	.00082	.00538	.00318
%RSD	.11792	.81332	2.1759	169.62	15.420	20.397	19.325
#1	-.00174	.92321	.00106	-.00029	.00588	.03019	.01422
#2	-.00173	.93389	.00110	.00321	.00472	.02258	.01872
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.00707	-.00800	3.547	1.825	4.857		
SDev	.00528	.00297	.042	.009	.030		
%RSD	74.713	37.173	1.193	.4981	.6167		
#1	.00333	-.01010	3.517	1.819	4.836		
#2	.01080	-.00589	3.577	1.832	4.878		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6356	--	--	--	--	--	--
SDev	34.13931	--	--	--	--	--	--
%RSD	.5371312	--	--	--	--	--	--
#1	6332	--	--	--	--	--	--
#2	6380	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8HKP

Operator: KT

Run Time: 02/19/01 16:01:58

Comment:

Mode: CONC Corr. Factor: 5

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	L.01662	L-.00562	L-.00030	L.14299	L-.00566	.02262	L.00094
SDev	.00472	.01515	.01054	.00405	.00558	.00011	.00003
%RSD	28.411	269.44	3518.4	2.8328	98.672	.49354	2.8156
#1	L.01328	L.00509	L.00715	L.14012	L-.00961	.02270	L.00092
#2	L.01996	L-.01634	L-.00775	L.14585	L-.00171	.02254	L.00096
Errors	LC Low	LC Pass	LC Low				
High	55.000	11.000	5.5000	550.00	11.000	11.000	5.5000
Low	.07500	.17000	.10000	.63000	.24500	.01000	.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	L.00030	116.67	L.00635	L.00847	L.02020	8.8737	310.28
SDev	.00081	.41	.00098	.00485	.00088	.0765	3.43
%RSD	270.14	.35363	15.414	57.291	4.3441	.86209	1.1063
#1	L.00087	116.96	L.00566	L.00504	L.01958	8.9278	312.71
#2	L-.00027	116.38	L.00704	L.01190	L.02083	8.8196	307.85
Errors	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Pass
High	11.000	550.00	55.000	110.00	55.000	1100.0	1100.0
Low	.01500	.38500	.02000	.03500	.04000	.66500	.19000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.68931	L.01387	L.01435	L.00031	2325.4	L-.01213	L.00187
SDev	.00582	.00586	.00456	.00118	7.3	.00240	.00003
%RSD	.84464	42.263	31.815	385.53	.31234	19.806	1.7311
#1	.69342	L.00973	L.01757	L-.00053	2330.5	L-.01043	L.00184
#2	.68519	L.01802	L.01112	L.00114	2320.3	L-.01383	L.00189
Errors	LC Pass	LC Low	LC Low	LC Low	NOCHECK	LC Low	LC Low
High	27.500	27.500	110.00	2.2000		22.000	55.000
Low	.01000	.10500	.05500	.03000		.23500	.01500
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	L-.00746	.91206	L-.00143	-.00952	.01818	.03119	.00935
SDev	.00002	.00964	.04190	.01633	.00107	.00535	.00441
%RSD	.23415	1.0570	2924.0	171.51	5.8719	17.153	47.155
#1	L-.00747	.91887	L-.03106	.00203	.01742	.02740	.00623
#2	L-.00745	.90524	L.02819	-.02107	.01893	.03497	.01247
Errors	LC Low	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	.02000	.03500	.46000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.03048	-.02365	3.335	1.886	4.747		
SDev	.01802	.01372	.032	.019	.057		
%RSD	59.127	58.017	.9535	.9861	1.208		
#1	.04322	-.01394	3.357	1.899	4.788		
#2	.01773	-.03335	3.312	1.873	4.707		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			55.00	5.500	55.00		
Low			.0550	.0050	.2400		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7078	--	--	--	--	--	--
SDev	34.93101	--	--	--	--	--	--
%RSD	.4935445	--	--	--	--	--	--
#1	7053	--	--	--	--	--	--
#2	7102	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCVT

Operator: KT

Run Time: 02/19/01 16:07:51

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50043	.50361	.49757	24.440	.50380	2.0227	2.0572
SDev	.00016	.00226	.00113	.102	.00220	.0038	.0030
%RSD	.03208	.44875	.22624	.41785	.43772	.19022	.14692
#1	.50054	.50201	.49677	24.512	.50536	2.0254	2.0551
#2	.50031	.50520	.49836	24.368	.50224	2.0200	2.0594
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51113	102.68	2.0398	2.0272	1.9635	25.524	99.746
SDev	.00136	.15	.0025	.0006	.0071	.049	.151
%RSD	.26598	.14445	.12214	.02935	.36260	.19357	.15143
#1	.51017	102.57	2.0381	2.0268	1.9686	25.489	99.853
#2	.51209	102.78	2.0416	2.0277	1.9585	25.559	99.639
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0420	1.9987	2.0429	.99204	49.136	.98884	2.0249
SDev	.0017	.0363	.0016	.00244	.126	.00912	.0007
%RSD	.08093	1.8152	.08039	.24608	.25721	.92265	.03327
#1	2.0408	1.9730	2.0418	.99377	49.226	.98238	2.0244
#2	2.0431	2.0243	2.0441	.99032	49.047	.99529	2.0254
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0236	2.0377	1.9843	.49676	.49917	.50254	.49937
SDev	.0018	.0000	.0057	.00010	.00359	.00021	.00034
%RSD	.09059	.00081	.28768	.02101	.71907	.04141	.06900
#1	2.0223	2.0377	1.9883	.49684	.49664	.50240	.49961
#2	2.0249	2.0377	1.9803	.49669	.50171	.50269	.49913
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.50529	.50276	2.001	2.052	2.017		
SDev	.00104	.00287	.000	.002	.006		
%RSD	.20570	.57070	.0239	.1212	.3125		
#1	.50456	.50073	2.001	2.054	2.021		
#2	.50603	.50479	2.002	2.051	2.012		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			2.200	2.200	2.200		
Low			1.800	1.800	1.800		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7252	--	--	--	--	--	--
SDev	8.937581	--	--	--	--	--	--
%RSD	.1232376	--	--	--	--	--	--
#1	7259	--	--	--	--	--	--
#2	7246	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCBT

Operator: KT

Run Time: 02/19/01 16:15:52

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00088	-.00103	-.00072	.00739	-.00208	.00000	.00008
SDev	.00125	.00087	.00104	.00019	.00341	.00000	.00009
%RSD	141.89	84.219	144.69	2.6011	164.18	.00000	112.78
#1	-.00176	-.00042	.00002	.00753	-.00449	.00000	.00013
#2	.00000	-.00165	-.00146	.00726	.00033	.00000	.00002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	.01299	.00026	.00001	-.00051	-.01446	.00097
SDev	.00011	.00067	.00001	.00046	.00018	.00622	.00143
%RSD	85.064	5.1359	3.0484	9103.6	36.449	43.006	147.65
#1	-.00005	.01252	.00025	-.00032	-.00038	-.01007	.00198
#2	-.00021	.01347	.00027	.00033	-.00064	-.01886	-.00004
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	.00158	-.00001	.00004	-.05293	-.00206	.00044
SDev	.00000	.00002	.00042	.00028	.01247	.00012	.00001
%RSD	32.148	.97609	7752.8	656.34	23.568	5.6208	1.4117
#1	-.00000	.00156	.00029	-.00016	-.04411	-.00214	.00045
#2	-.00000	.00159	-.00031	.00024	-.06175	-.00198	.00044
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00095	.00067	.00383	-.00123	.00030	.00286	-.00274
SDev	.00000	.00001	.00263	.00190	.00067	.00229	.00073
%RSD	.02025	1.9136	68.709	153.99	220.88	80.041	26.581
#1	-.00095	.00066	.00197	.00011	-.00017	.00124	-.00326
#2	-.00095	.00068	.00569	-.00257	.00077	.00447	-.00223
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm
Avge	.00976	-.00642	.0014	.0000	<.0000
SDev	.00273	.00006	.0010	.0000	.0011
%RSD	27.996	.92019	71.86	.0000	55.46

#1	.01170	-.00647	.0007	.0000	<.0000
#2	.00783	-.00638	.0021	.0000	<.0000

Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7467	--	--	--	--	--	--
SDev	37.30713	--	--	--	--	--	--
%RSD	.4996255	--	--	--	--	--	--
#1	7493	--	--	--	--	--	--
#2	7441	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8HKS
 Run Time: 02/19/01 16:21:44
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: KT

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54084	2.1864	.54525	2.2734	2.1737	1.9707	.05351
SDev	.00411	.0092	.00571	.0030	.0052	.0032	.00006
%RSD	.75933	.42076	1.0462	.13189	.24142	.16265	.10844
#1	.53794	2.1798	.54122	2.2755	2.1775	1.9685	.05355
#2	.54375	2.1929	.54928	2.2713	2.1700	1.9730	.05347
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05232	113.42	.20866	.53315	.28624	9.5605	306.65
SDev	.00028	.00	.00012	.00503	.00082	.0186	.96
%RSD	.53378	.00015	.05933	.94398	.28583	.19426	.31179
#1	.05212	113.42	.20875	.52959	.28682	9.5737	305.98
#2	.05252	113.42	.20858	.53671	.28567	9.5474	307.33
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1865	1.0878	.52279	.05562	1622.3	2.2363	.00093
SDev	.0044	.0146	.00202	.00039	2.1	.0028	.00034
%RSD	.37212	1.3418	.38560	.69943	.12719	.12343	36.280
#1	1.1833	1.0774	.52136	.05534	1620.8	2.2343	.00116
#2	1.1896	1.0981	.52421	.05589	1623.8	2.2382	.00069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50387	1.4845	.00110	.54154	.55268	.54314	.53971
SDev	.00074	.0055	.00002	.01012	.00314	.00207	.00513
%RSD	.14749	.36943	1.8478	1.8693	.56911	.38079	.94952
#1	.50334	1.4806	.00109	.53438	.55491	.54168	.53608
#2	.50439	1.4884	.00112	.54870	.55046	.54460	.54333
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	2.1787	2.1902	3.544	1.798	4.849		
SDev	.0023	.0149	.018	.004	.017		
%RSD	.10330	.68103	.5172	.2270	.3563		
#1	2.1803	2.1796	3.531	1.795	4.837		
#2	2.1771	2.2007	3.557	1.801	4.861		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6477	--	--	--	--	--	--
SDev	29.67017	--	--	--	--	--	--
%RSD	.4581035	--	--	--	--	--	--
#1	6456	--	--	--	--	--	--
#2	6498	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8HKD
 Run Time: 02/19/01 16:28:38
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: KT

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54129	2.1999	.55087	2.3252	2.1717	2.0063	.05357
SDev	.00399	.0008	.00084	.0087	.0040	.0005	.00004
%RSD	.73713	.03849	.15260	.37248	.18574	.02591	.07298
#1	.53847	2.2005	.55028	2.3313	2.1746	2.0060	.05359
#2	.54411	2.1993	.55147	2.3190	2.1689	2.0067	.05354
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05213	110.09	.20843	.53012	.29080	9.3687	300.88
SDev	.00011	.14	.00025	.00193	.00048	.0167	.73
%RSD	.21920	.12866	.11927	.36368	.16605	.17775	.24226
#1	.05221	109.99	.20825	.52876	.29114	9.3804	300.36
#2	.05205	110.19	.20860	.53148	.29046	9.3569	301.39
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1696	1.0888	.52234	.05654	1614.8	2.2519	.00067
SDev	.0028	.0132	.00268	.00008	.5	.0051	.00000
%RSD	.23858	1.2126	.51269	.13708	.03390	.22821	.35833
#1	1.1676	1.0795	.52045	.05659	1615.2	2.2482	.00067
#2	1.1716	1.0981	.52423	.05648	1614.4	2.2555	.00067
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50934	1.4781	.00541	.54741	.55782	.54155	.54116
SDev	.00105	.0042	.00000	.00203	.00154	.00221	.00709
%RSD	.20642	.28682	.01040	.37058	.27586	.40867	1.3096
#1	.50860	1.4751	.00541	.54597	.55891	.54312	.53615
#2	.51008	1.4811	.00541	.54884	.55673	.53999	.54617
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	2.1898	2.2049	3.478	1.778	4.779		
SDev	.0101	.0038	.011	.001	.005		
%RSD	.46011	.17055	.3034	.0704	.0976		
#1	2.1969	2.2022	3.471	1.777	4.776		
#2	2.1827	2.2075	3.486	1.779	4.783		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6366	--	--	--	--	--	--
SDev	15.98068	--	--	--	--	--	--
%RSD	.2510199	--	--	--	--	--	--
#1	6355	--	--	--	--	--	--
#2	6378	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV81R 4X

Operator: KT

Run Time: 02/19/01 16:44:12

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00051	-.00358	.00087	.12186	.00047	.07244	.00018
SDev	.00164	.00168	.00079	.00949	.00505	.00106	.00008
%RSD	323.84	46.994	91.287	7.7842	1072.1	1.4576	45.744
#1	-.00166	-.00239	.00031	.12857	-.00310	.07319	.00024
#2	.00065	-.00477	.00143	.11515	.00405	.07170	.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00018	16.442	.00302	.00069	.02897	.23685	2.1588
SDev	.00005	.260	.00025	.00052	.00076	.00822	.0339
%RSD	30.407	1.5840	8.1850	75.695	2.6418	3.4696	1.5691
#1	-.00022	16.626	.00319	.00106	.02951	.24266	2.1827
#2	-.00014	16.258	.00284	.00032	.02843	.23104	2.1348
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02270	.00560	.00949	-.00011	1692.2	.00360	.00310
SDev	.00030	.00004	.00042	.00038	21.6	.00178	.00001
%RSD	1.3366	.75523	4.4398	348.09	1.2790	49.425	.25941
#1	.02292	.00563	.00920	.00016	1707.5	.00486	.00310
#2	.02249	.00557	.00979	-.00037	1676.9	.00234	.00309
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.02629	.00148	.00061	.00139	.00201	-.00176
SDev	.00036	.00016	.00002	.00120	.00002	.00081	.00205
%RSD	102.00	.60411	1.6525	197.31	1.0790	40.200	116.59
#1	.00010	.02641	.00147	-.00024	.00140	.00144	-.00321
#2	.00061	.02618	.00150	.00145	.00138	.00258	-.00031
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.00745	-.00909	.0262	.2568	1.482		
SDev	.00087	.00209	.0012	.0039	.023		
%RSD	11.649	22.993	4.734	1.501	1.581		
#1	.00806	-.00761	.0271	.2595	1.499		
#2	.00684	-.01057	.0253	.2541	1.465		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6643	--	--	--	--	--	--
SDev	38.24039	--	--	--	--	--	--
%RSD	.5756321	--	--	--	--	--	--
#1	6616	--	--	--	--	--	--
#2	6670	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV81T 4X

Operator: KT

Run Time: 02/19/01 16:52:13

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00515	-.00207	-.00184	.39063	.00524	.15814	.00023
SDev	.00089	.00193	.00186	.00334	.00150	.00143	.00000
%RSD	17.245	93.237	101.43	.85578	28.641	.90530	.44391
#1	.00578	-.00070	-.00052	.39299	.00630	.15915	.00023
#2	.00452	-.00343	-.00316	.38826	.00418	.15713	.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	109.32	.01272	.00064	.12101	2.9276	7.1013
SDev	.00006	.09	.00016	.00053	.00120	.0095	.0479
%RSD	55.485	.07861	1.2701	82.316	.99009	.32555	.67426
#1	.00016	109.38	.01283	.00101	.12186	2.9343	7.1351
#2	.00007	109.26	.01261	.00027	.12017	2.9208	7.0674
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06737	.00594	.02836	.00006	1620.2	.00244	.01375
SDev	.00041	.00256	.00094	.00013	6.1	.00375	.00032
%RSD	.60377	43.159	3.3131	201.30	.37613	153.52	2.3540
#1	.06766	.00413	.02769	-.00003	1624.5	.00509	.01352
#2	.06709	.00775	.02902	.00015	1615.9	-.00021	.01397
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00161	.11217	.00560	-.00236	-.00078	.00874	.00336
SDev	.00000	.00065	.00599	.00330	.00101	.00246	.00256
%RSD	.05651	.58191	107.01	139.54	129.75	28.193	76.309
#1	.00161	.11263	.00136	-.00003	-.00150	.00700	.00517
#2	.00161	.11171	.00983	-.00470	-.00006	.01048	.00155
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.00900	-.00759	.0273	.6017	2.333		
SDev	.00248	.00165	.0000	.0055	.017		
%RSD	27.549	21.781	.0878	.9087	.7292		
#1	.01075	-.00643	.0273	.6056	2.345		
#2	.00725	-.00876	.0272	.5978	2.321		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6579	--	--	--	--	--	--
SDev	5.883004	--	--	--	--	--	--
%RSD	.0894144	--	--	--	--	--	--
#1	6575	--	--	--	--	--	--
#2	6584	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8G4B-1047263 Operator: KT
 Run Time: 02/19/01 17:00:12
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00092	.00204	-.00019	-.00155	-.00334	.00027	-.00003
SDev	.00147	.00100	.00034	.00110	.00114	.00000	.00008
%RSD	160.29	48.943	176.93	70.745	34.044	.06404	266.17

#1	.00196	.00274	-.00044	-.00233	-.00254	.00027	.00003
#2	-.00012	.00133	.00005	-.00078	-.00414	.00027	-.00008

Errors	LC Pass						
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.04177	.00122	.00066	.00027	-.00151	.00091
SDev	.00006	.00010	.00006	.00046	.00001	.00402	.00145
%RSD	122.49	.24922	5.2321	70.155	2.7384	266.39	159.99

#1	.00009	.04184	.00118	.00098	.00028	.00133	-.00012
#2	.00001	.04169	.00127	.00033	.00027	-.00436	.00193

Errors	LC Pass						
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00064	-.00003	.00029	.00012	.26235	-.00444	.00045
SDev	.00000	.00000	.00085	.00006	.07667	.00244	.00000
%RSD	.08600	4.2037	288.84	45.881	29.226	54.873	.17408

#1	.00064	-.00003	-.00031	.00016	.20813	-.00617	.00045
#2	.00064	-.00003	.00089	.00008	.31656	-.00272	.00045

Errors	LC Pass						
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00095	.00270	.00012	-.00050	.00043	.00251	.00012
SDev	.00000	.00001	.00788	.00079	.00261	.00356	.00043
%RSD	.01217	.21815	6723.7	156.33	611.72	142.05	345.85

#1	-.00095	.00271	-.00545	.00005	-.00142	.00503	.00042
#2	-.00095	.00270	.00569	-.00106	.00227	-.00001	-.00018

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881
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Units			ppm	ppm	ppm		
Avge	.00740	-.00064	<.0000	.0002	.0298		
SDev	.00351	.00325	.0010	.0000	.0006		
%RSD	47.503	506.96	5990.	.0640	1.968		
#1	.00491	.00166	.0007	.0002	.0302		
#2	.00988	-.00294	<.0000	.0002	.0294		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			.2000	.0500	.5000		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7509	--	--	--	--	--	--
SDev	4.808533	--	--	--	--	--	--
%RSD	.0640403	--	--	--	--	--	--
#1	7505	--	--	--	--	--	--
#2	7512	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV8G4C

Operator: KT

Run Time: 02/19/01 17:06:04

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49532	1.9250	.49667	1.9222	1.9510	2.0298	.05250
SDev	.00481	.0110	.00670	.0065	.0141	.0109	.00015
%RSD	.97079	.56920	1.3483	.33879	.72119	.53740	.28359
#1	.49192	1.9173	.49193	1.9269	1.9410	2.0221	.05240
#2	.49872	1.9328	.50140	1.9176	1.9609	2.0376	.05261
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	2.3000	.57500	2.4000	2.3000	2.4000	.06000
Low	.40000	1.4000	.37500	1.6000	1.5000	1.6000	.04000
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05197	51.364	.20859	.52101	.25089	1.0437	48.545
SDev	.00030	.128	.00122	.00340	.00021	.0174	.200
%RSD	.58192	.24859	.58283	.65217	.08543	1.6708	.41184
#1	.05219	51.274	.20773	.51860	.25104	1.0313	48.404
#2	.05176	51.455	.20945	.52341	.25073	1.0560	48.686
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	60.000	.24000	.60000	.30000	1.2500	60.000
Low	.04000	40.000	.17000	.40000	.20000	.80000	40.000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51736	.99092	.51446	.04972	47.061	2.0188	L.00016
SDev	.00384	.01444	.00279	.00026	.014	.0164	.00030
%RSD	.74139	1.4569	.54294	.51701	.02991	.81188	186.79
#1	.51465	.98071	.51248	.04953	47.071	2.0072	L-.00005
#2	.52007	1.0011	.51643	.04990	47.051	2.0304	L.00037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Low
High	.60000	1.2000	.60000	.06000		2.4000	1.2000
Low	.40000	.80000	.40000	.04000		1.5000	.80000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.50803	.50741	-.00199	.49648	.49703	.49599	.49498
SDev	.00182	.00345	.00002	.00760	.00488	.00481	.00481
%RSD	.35763	.67924	1.1321	1.5312	.98227	.96953	.97142
#1	.50674	.50497	-.00197	.49111	.49358	.49259	.49158
#2	.50931	.50985	-.00200	.50186	.50048	.49939	.49838
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	.60000					
Low	.40000	.40000					
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	1.9021	1.9365	L.0213	L.0015	.1633		
SDev	.0068	.0130	.0009	.0000	.0014		
%RSD	.35601	.67373	4.355	.2896	.8325		
#1	1.8973	1.9272	L.0220	L.0015	.1623		
#2	1.9069	1.9457	L.0206	L.0015	.1642		
Errors	NOCHECK	NOCHECK	LC Low	LC Low	NOCHECK		
High			1.200	1.200			
Low			.8000	.8000			
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7314	--	--	--	--	--	--
SDev	21.18489	--	--	--	--	--	--
%RSD	.2896319	--	--	--	--	--	--
#1	7329	--	--	--	--	--	--
#2	7299	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV9F1
 Run Time: 02/19/01 17:14:04
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: KT

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08391	-.00335	-.00180	195.41	.03419	1.8381	.00565
SDev	.00059	.00291	.00021	.25	.00274	.0091	.00003
%RSD	.70384	86.757	11.685	.12553	7.9995	.49281	.46661
#1	.08433	L-.00540	-.00195	195.58	.03612	1.8445	.00567
#2	.08349	-.00129	-.00165	195.23	.03225	1.8317	.00563
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00586	110.44	.22889	.10686	.43372	223.78	60.653
SDev	.00009	.15	.00032	.00034	.00031	.20	.281
%RSD	1.6126	.13154	.14055	.31918	.07135	.08840	.46314
#1	.00592	110.34	.22912	.10711	.43393	223.64	60.852
#2	.00579	110.54	.22866	.10662	.43350	223.92	60.455
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4517	.00487	.16210	-.00273	3.6487	-.00028	12.849
SDev	.0083	.00217	.00049	.00032	.0051	.00651	.011
%RSD	.15300	44.466	.30260	11.839	.13988	2353.3	.08493
#1	5.4576	.00641	.16244	-.00250	3.6523	.00433	12.842
#2	5.4458	.00334	.16175	-.00296	3.6451	-.00488	12.857
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45813	.68593	.00225	-.00285	.00031	.10669	.07254
SDev	.00064	.00157	.00271	.00086	.00235	.00220	.00021
%RSD	.13903	.22891	120.40	30.076	762.08	2.0618	.29331
#1	.45768	.68704	.00417	-.00224	-.00135	.10824	.07239
#2	.45858	.68482	.00033	-.00345	.00197	.10513	.07269
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	-.00075	-.00465	.0452	.6635	3.169		
SDev	.00472	.00671	.0027	.0029	.014		
%RSD	632.52	144.41	5.886	.4408	.4516		
#1	.00259	-.00939	.0433	.6656	3.180		
#2	-.00408	.00010	.0471	.6614	3.159		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7424	--	--	--	--	--	--
SDev	41.97376	--	--	--	--	--	--
%RSD	.5653855	--	--	--	--	--	--
#1	7394	--	--	--	--	--	--
#2	7454	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV9F9

Operator: KT

Run Time: 02/19/01 17:22:04

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07874	-.00158	-.00082	218.62	.03849	2.0006	.00611
SDev	.00196	.00239	.00387	.22	.00375	.0033	.00007
%RSD	2.4941	150.90	471.56	.09893	9.7304	.16343	1.1415
#1	.08013	.00011	-.00356	218.78	.03584	1.9983	.00616
#2	.07735	-.00327	.00192	218.47	.04114	2.0029	.00606
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00710	130.48	.24451	.12420	.59854	253.99	71.872
SDev	.00010	.24	.00088	.00062	.00075	.30	.148
%RSD	1.3465	.18405	.35803	.49638	.12440	.11943	.20634
#1	.00717	130.31	.24389	.12463	.59907	253.78	71.767
#2	.00703	130.65	.24512	.12376	.59801	254.21	71.976
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.7548	.00474	.17589	-.00268	3.8936	.00176	14.055
SDev	.0221	.00001	.00034	.00001	.0467	.00204	.005
%RSD	.38483	.13443	.19227	.25578	1.2000	115.77	.03625
#1	5.7391	.00475	.17565	-.00267	3.9266	.00032	14.059
#2	5.7705	.00474	.17613	-.00268	3.8606	.00321	14.052
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avg	.53280	.80237	.00445	-.00395	.00544	.10481	.06573
SDev	.00105	.00300	.00267	.00470	.00222	.00162	.00214
%RSD	.19655	.37438	59.954	119.09	40.814	1.5447	3.2500
#1	.53205	.80025	.00256	-.00727	.00387	.10595	.06724
#2	.53354	.80449	.00634	-.00062	.00701	.10366	.06422
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	-.00234	-.00121	.0478	.7129	3.352		
SDev	.00049	.00333	.0011	.0015	.000		
%RSD	21.153	276.43	2.230	.2085	.0117		
#1	-.00199	.00115	.0470	.7118	3.352		
#2	-.00269	-.00356	.0485	.7139	3.352		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7442	--	--	--	--	--	--
SDev	14.28369	--	--	--	--	--	--
%RSD	.1919403	--	--	--	--	--	--
#1	7452	--	--	--	--	--	--
#2	7432	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QG

Operator: KT

Run Time: 02/19/01 17:30:03

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06033	-.00310	.00036	152.32	.03000	.87937	.00477
SDev	.00177	.00501	.00119	.57	.00503	.00063	.00008
%RSD	2.9294	161.71	325.78	.37608	16.771	.07160	1.7351
#1	.05908	L-.00664	.00120	152.72	.02645	.87982	.00482
#2	.06158	.00044	-.00047	151.91	.03356	.87893	.00471
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00311	57.066	.23507	.06645	.23561	182.60	60.555
SDev	.00017	.090	.00071	.00029	.00050	.31	.028
%RSD	5.4994	.15818	.30184	.43129	.21098	.17182	.04704
#1	.00324	57.002	.23457	.06625	.23597	182.38	60.576
#2	.00299	57.130	.23557	.06665	.23526	182.83	60.535
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.0999	.00574	.13433	-.00237	27.600	-.00035	17.751
SDev	.0104	.00219	.00111	.00016	.248	.00005	.019
%RSD	.25367	38.251	.82424	6.9412	.89846	15.290	.10888
#1	4.0925	.00729	.13354	-.00225	27.776	-.00031	17.738
#2	4.1072	.00419	.13511	-.00249	27.425	-.00039	17.765
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40534	.44339	.00778	-.00029	.00167	.08032	.05035
SDev	.00113	.00089	.00002	.00079	.00199	.00026	.00252
%RSD	.27885	.19973	.28978	272.16	118.86	.31794	5.0091
#1	.40454	.44276	.00779	.00027	.00308	.08014	.04857
#2	.40614	.44401	.00776	-.00084	.00027	.08050	.05213
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	-.00097	-.00416	.0857	.7338	2.365		
SDev	.00605	.01053	.0001	.0003	.007		
%RSD	625.09	253.13	.1160	.0351	.2823		
#1	.00331	-.01161	.0858	.7339	2.370		
#2	-.00525	.00329	.0857	.7336	2.360		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7554	--	--	--	--	--	--
SDev	8.626841	--	--	--	--	--	--
%RSD	.1141959	--	--	--	--	--	--
#1	7548	--	--	--	--	--	--
#2	7561	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QGP

Operator: KT

Run Time: 02/19/01 17:38:03

Comment:

Mode: CONC Corr. Factor: 5

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.06034	L.01111	L-.00429	151.42	L.02554	.91003	L.00494
SDev	.00454	.01896	.00582	.02	.02597	.00587	.00000
%RSD	7.5299	170.72	135.68	.01347	101.68	.64465	.07411
#1	L.06355	L.02451	L-.00840	151.43	L.04390	.91418	L.00494
#2	L.05713	L-.00230	L-.00017	151.40	L.00718	.90589	L.00494
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	55.000	11.000	5.5000	550.00	11.000	11.000	5.5000
Low	.07500	.17000	.10000	.63000	.24500	.01000	.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.00008	60.775	.24733	.07394	.23154	193.65	62.927
SDev	.00125	.037	.00026	.00024	.00184	.23	.356
%RSD	1632.3	.06110	.10616	.32682	.79280	.11789	.56636
#1	L-.00081	60.801	.24752	.07412	.23284	193.81	63.179
#2	L.00096	60.749	.24714	.07377	.23024	193.49	62.675
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	550.00	55.000	110.00	55.000	1100.0	1100.0
Low	.01500	.38500	.02000	.03500	.04000	.66500	.19000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.3717	L.00346	.14199	L-.00287	28.473	L-.01320	18.857
SDev	.0154	.00001	.00390	.00029	.366	.01898	.012
%RSD	.35207	.13574	2.7450	10.053	1.2866	143.79	.06343
#1	4.3826	L.00347	.13924	L-.00307	28.214	L.00022	18.866
#2	4.3608	L.00346	.14475	L-.00266	28.732	L-.02662	18.849
Errors	LC Pass	LC Low	LC Pass	LC Low	NOCHECK	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000		22.000	55.000
Low	.01000	.10500	.05500	.03000		.23500	.01500
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avg	.41944	.46789	L-.00338	-.01153	.01022	.09407	.04350
SDev	.00264	.00352	.02618	.00875	.00005	.00562	.00400
%RSD	.63022	.75253	775.00	75.850	.47601	5.9774	9.2060
#1	.42131	.47038	L.01514	-.01772	.01026	.09805	.04633
#2	.41757	.46540	L-.02189	-.00535	.01019	.09009	.04067
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	.02000	.03500	.46000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.02007	.00663	.0882	.7652	2.471		
SDev	.00628	.02529	.0050	.0041	.022		
%RSD	31.317	381.29	5.692	.5356	.8771		
#1	.02451	.02451	.0918	.7681	2.487		
#2	.01562	-.01125	.0847	.7623	2.456		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			55.00	5.500	55.00		
Low			.0550	.0050	.2400		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7509	--	--	--	--	--	--
SDev	17.30996	--	--	--	--	--	--
%RSD	.2305290	--	--	--	--	--	--
#1	7497	--	--	--	--	--	--
#2	7521	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCVT
 Run Time: 02/19/01 17:43:55
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: KT

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50029	.50704	.50039	24.440	.49754	2.0146	2.0574
SDev	.00007	.00013	.00294	.091	.00536	.0055	.0007
%RSD	.01402	.02534	.58834	.37141	1.0765	.27503	.03347
#1	.50034	.50695	.50247	24.504	.50132	2.0185	2.0578
#2	.50024	.50713	.49831	24.376	.49375	2.0107	2.0569
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50884	102.62	2.0380	2.0225	1.9585	25.472	99.932
SDev	.00057	.09	.0003	.0028	.0050	.006	.257
%RSD	.11273	.08386	.01402	.13616	.25568	.02464	.25701
#1	.50925	102.68	2.0378	2.0244	1.9620	25.476	100.11
#2	.50844	102.56	2.0382	2.0205	1.9550	25.467	99.750
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0388	1.9889	2.0375	.99764	49.040	.98512	2.0369
SDev	.0017	.0367	.0035	.00175	.137	.00179	.0015
%RSD	.08411	1.8432	.17107	.17521	.27857	.18189	.07143
#1	2.0400	1.9630	2.0400	.99888	49.136	.98385	2.0380
#2	2.0376	2.0148	2.0351	.99640	48.943	.98638	2.0359
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0312	2.0437	1.9878	.50180	.49757	.50256	.49915
SDev	.0015	.0013	.0046	.00084	.00716	.00294	.00136
%RSD	.07419	.06578	.23323	.16735	1.4388	.58509	.27303
#1	2.0322	2.0447	1.9845	.50240	.50263	.50464	.49819
#2	2.0301	2.0428	1.9910	.50121	.49251	.50048	.50012
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.50560	.50776	2.012	2.054	2.008		
SDev	.00066	.00052	.001	.005	.010		
%RSD	.12968	.10241	.0414	.2602	.4923		
#1	.50606	.50739	2.013	2.058	2.015		
#2	.50514	.50812	2.012	2.050	2.001		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			2.200	2.200	2.200		
Low			1.800	1.800	1.800		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7219	--	--	--	--	--	--
SDev	2.997953	--	--	--	--	--	--
%RSD	.0415307	--	--	--	--	--	--
#1	7217	--	--	--	--	--	--
#2	7221	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCBT

Operator: KT

Run Time: 02/19/01 17:51:56

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	-.00149	.00079	-.02424	-.00205	.00000	.00000
SDev	.00134	.00028	.00023	.00145	.00110	.00000	.00000
%RSD	1288.3	19.082	29.686	5.9847	53.600	.00000	48.196
#1	-.00084	-.00129	.00095	-.02526	-.00283	.00000	.00000
#2	.00105	-.00169	.00062	-.02321	-.00127	.00000	.00000
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	.01481	-.00014	-.00000	.00032	-.00877	.00003
SDev	.00011	.00015	.00033	.00047	.00023	.00203	.00001
%RSD	164.15	1.0037	234.40	74726.	71.738	23.095	39.096
#1	-.00014	.01470	-.00038	-.00033	.00048	-.01021	.00004
#2	.00001	.01491	.00009	.00033	.00016	-.00734	.00002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00000	.00243	-.00061	.00016	.14950	-.00059	.00064
SDev	.00000	.00114	.00129	.00023	.03031	.00317	.00030
%RSD	56.137	47.040	212.21	141.47	20.274	534.83	47.099
#1	-.00000	.00324	-.00152	.00032	.12807	.00165	.00085
#2	-.00000	.00162	.00030	-.00000	.17094	-.00283	.00042
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00095	-.00035	.00001	.00023	.00190	.00330	-.00149
SDev	.00000	.00049	.00268	.00024	.00023	.00267	.00068
%RSD	.05292	140.90	22924.	102.91	12.010	80.864	45.516
#1	-.00095	-.00069	.00191	.00040	.00206	.00141	-.00197
#2	-.00095	-.00000	-.00188	.00006	.00174	.00519	-.00101
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.00857	-.00652	.0007	.0000	<.0000		
SDev	.00132	.00108	.0000	.0000	.0013		
%RSD	15.352	16.632	.0841	.0000	56.46		
#1	.00764	-.00575	.0007	.0000	<.0000		
#2	.00950	-.00728	.0007	.0000	<.0000		
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass		
Value			.0000	.0000	.0000		
Range			.2000	.0500	.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7367	--	--	--	--	--	--
SDev	8.089260	--	--	--	--	--	--
%RSD	.1098034	--	--	--	--	--	--
#1	7373	--	--	--	--	--	--
#2	7361	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QGS

Operator: KT

Run Time: 02/19/01 17:57:48

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50908	1.8131	.12664	159.19	1.8661	2.7468	.05400
SDev	.00184	.0093	.00196	.09	.0022	.0079	.00016
%RSD	.36210	.51343	1.5498	.05469	.11764	.28859	.29590
#1	.51038	1.8197	.12525	159.12	1.8676	2.7524	.05411
#2	.50778	1.8066	.12803	159.25	1.8645	2.7412	.05389
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05236	101.44	.43363	.55311	.51114	183.19	107.39
SDev	.00021	.13	.00091	.00017	.00018	.24	.22
%RSD	.39336	.12833	.21013	.03133	.03463	.13232	.20083
#1	.05251	101.53	.43427	.55299	.51126	183.36	107.55
#2	.05221	101.35	.43298	.55323	.51101	183.01	107.24
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.5367	.90962	.61584	.04553	73.839	1.9104	16.031
SDev	.0058	.00627	.00193	.00060	.109	.0009	.013
%RSD	.12893	.68934	.31318	1.3294	.14715	.04741	.08392
#1	4.5409	.90519	.61721	.04596	73.762	1.9097	16.040
#2	4.5326	.91405	.61448	.04510	73.916	1.9110	16.021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.88023	.96491	-.00086	.12538	.12917	.52438	.50144
SDev	.00102	.00294	.00269	.00388	.00187	.00903	.00175
%RSD	.11596	.30464	311.83	3.0923	1.4492	1.7226	.34818
#1	.88095	.96699	.00104	.12264	.13049	.53077	.50021
#2	.87951	.96283	-.00277	.12812	.12784	.51799	.50268
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	1.7825	1.8284	.0898	.7117	2.252		
SDev	.0147	.0066	.0004	.0018	.016		
%RSD	.82236	.36307	.4625	.2523	.7198		
#1	1.7929	1.8331	.0901	.7130	2.264		
#2	1.7722	1.8237	.0895	.7105	2.241		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7361	--	--	--	--	--	--
SDev	33.34727	--	--	--	--	--	--
%RSD	.4530448	--	--	--	--	--	--
#1	7337	--	--	--	--	--	--
#2	7384	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QGD

Operator: KT

Run Time: 02/19/01 18:05:48

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.90420	1.8377	.11339	157.10	1.8864	2.8075	.05429
SDev	.00306	.0041	.00781	.77	.0223	.0211	.00050
%RSD	.33818	.22272	6.8854	.48817	1.1808	.75095	.91288
#1	.90636	1.8406	.11891	157.64	1.9021	2.8224	.05394
#2	.90204	1.8348	.10787	156.56	1.8706	2.7926	.05464
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05216	99.501	.42060	.55832	.41100	183.04	107.25
SDev	.00123	1.033	.00112	.00427	.00228	1.31	.75
%RSD	2.3627	1.0379	.26551	.76519	.55478	.71387	.70336
#1	.05304	98.771	.42139	.56134	.41261	182.11	107.78
#2	.05129	100.23	.41981	.55530	.40938	183.96	106.72
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.0840	.91382	.61075	.04721	74.656	1.9204	15.517
SDev	.0242	.00479	.00454	.00169	.335	.0050	.018
%RSD	.47680	.52413	.74277	3.5723	.44838	.26092	.11641
#1	5.1011	.91043	.61396	.04602	74.893	1.9240	15.504
#2	5.0669	.91720	.60754	.04840	74.420	1.9169	15.529
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avg	.89031	.89565	.00124	.10692	.12633	.92975	.89144
SDev	.00448	.00554	.00528	.01306	.00271	.00965	.00940
%RSD	.50367	.61848	426.78	12.213	2.1460	1.0376	1.0546
#1	.88713	.89957	-.00249	.11616	.12442	.92293	.89809
#2	.89348	.89173	.00497	.09769	.12825	.93657	.88479
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	1.8300	1.8415	.0882	.7090	1.983		
SDev	.0093	.0108	.0019	.0051	.018		
%RSD	.50910	.58581	2.156	.7223	.8977		
#1	1.8235	1.8491	.0896	.7126	1.996		
#2	1.8366	1.8338	.0869	.7054	1.970		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7319	--	--	--	--	--	--
SDev	75.12319	--	--	--	--	--	--
%RSD	1.026357	--	--	--	--	--	--
#1	7266	--	--	--	--	--	--
#2	7373	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QH
 Run Time: 02/19/01 18:13:48
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: KT

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04599	.00110	-.00043	162.68	.03229	1.0876	.00492
SDev	.00136	.00053	.00006	.10	.00021	.0037	.00000
%RSD	2.9688	47.577	13.476	.05893	.64292	.33792	.06873
#1	.04695	.00073	-.00047	162.74	.03215	1.0850	.00493
#2	.04502	.00148	-.00039	162.61	.03244	1.0902	.00492
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00373	43.116	.25341	.07881	.25680	202.16	52.936
SDev	.00007	.012	.00117	.00037	.00044	.09	.057
%RSD	2.0241	.02778	.46239	.47081	.16951	.04577	.10817
#1	.00378	43.125	.25259	.07854	.25711	202.22	52.895
#2	.00367	43.108	.25424	.07907	.25650	202.09	52.976
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.7417	.00691	.16001	-.00268	12.753	.00368	17.406
SDev	.0207	.00112	.00030	.00017	.014	.00176	.001
%RSD	.43682	16.218	.18704	6.2127	.11281	47.771	.00788
#1	4.7270	.00770	.15980	-.00257	12.763	.00243	17.407
#2	4.7563	.00612	.16023	-.00280	12.743	.00492	17.405
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.42817	.47222	.00539	-.00125	.00120	.06654	.03573
SDev	.00097	.00204	.00260	.00031	.00045	.00465	.00027
%RSD	.22729	.43253	48.333	25.184	37.924	6.9861	.76683
#1	.42748	.47078	.00355	-.00147	.00152	.06983	.03553
#2	.42886	.47367	.00723	-.00102	.00088	.06326	.03592
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.00149	.00091	.0716	.5899	2.107		
SDev	.00129	.00143	.0009	.0016	.000		
%RSD	86.486	157.28	1.260	.2786	.0102		
#1	.00241	-.00010	.0709	.5887	2.107		
#2	.00058	.00192	.0722	.5911	2.107		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7548	--	--	--	--	--	--
SDev	5.713478	--	--	--	--	--	--
%RSD	.0756920	--	--	--	--	--	--
#1	7544	--	--	--	--	--	--
#2	7552	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QK

Operator: KT

Run Time: 02/19/01 18:21:47

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04361	-.00130	-.00278	168.17	.03293	.96678	.00512
SDev	.00161	.00106	.00094	.71	.00151	.00391	.00000
%RSD	3.7036	81.522	33.607	.41980	4.5715	.40429	.01786
#1	.04475	-.00205	-.00212	168.67	.03399	.96402	.00512
#2	.04247	-.00055	-.00345	167.67	.03187	.96954	.00512
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00413	119.28	.22472	.07897	.31076	189.61	55.081
SDev	.00053	.22	.00237	.00137	.00123	.23	.173
%RSD	12.785	.18399	1.0564	1.7320	.39519	.11890	.31399
#1	.00376	119.12	.22304	.07800	.31163	189.45	54.959
#2	.00451	119.43	.22640	.07994	.30989	189.77	55.204
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.3445	.00215	.15612	-.00214	22.953	.00113	16.472
SDev	.0239	.00112	.00213	.00005	.105	.00380	.009
%RSD	.54908	51.957	1.3642	2.5264	.45944	336.03	.05175
#1	4.3276	.00295	.15461	-.00218	23.027	.00382	16.466
#2	4.3613	.00136	.15762	-.00210	22.878	-.00156	16.478
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42688	.47621	.00809	-.00527	.00220	.06160	.03463
SDev	.00094	.00285	.00533	.00015	.00312	.00426	.00030
%RSD	.21979	.59944	65.901	2.9024	141.35	6.9122	.85405
#1	.42622	.47419	.01186	-.00538	.00441	.06461	.03484
#2	.42755	.47823	.00432	-.00517	.00000	.05858	.03442
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	-.00088	-.00151	.0821	.9939	2.038		
SDev	.00133	.00226	.0020	.0045	.001		
%RSD	150.71	148.92	2.396	.4538	.0601		
#1	.00006	-.00311	.0835	.9907	2.039		
#2	-.00182	.00008	.0807	.9971	2.037		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7392	--	--	--	--	--	--
SDev	.8486662	--	--	--	--	--	--
%RSD	.0114810	--	--	--	--	--	--
#1	7391	--	--	--	--	--	--
#2	7393	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QL

Operator: KT

Run Time: 02/19/01 18:29:47

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04455	-.00338	-.00120	137.86	.03980	.92989	.00427
SDev	.00201	.00216	.00193	.09	.00227	.00070	.00001
%RSD	4.5152	63.794	161.18	.06345	5.7048	.07541	.14214
#1	.04312	-.00491	.00017	137.92	.03820	.92939	.00428
#2	.04597	-.00186	-.00256	137.80	.04141	.93039	.00427
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00332	67.629	.21166	.06971	.15517	184.82	50.386
SDev	.00010	.040	.00051	.00022	.00030	.06	.088
%RSD	2.8598	.05859	.24121	.31305	.18985	.03125	.17483
#1	.00325	67.601	.21130	.06986	.15538	184.78	50.448
#2	.00339	67.657	.21202	.06955	.15496	184.86	50.323
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.9182	.00358	.13170	-.00279	15.494	-.00329	17.043
SDev	.0062	.00333	.00060	.00012	.099	.00741	.005
%RSD	.15810	92.900	.45156	4.1322	.63850	224.91	.03139
#1	3.9138	.00594	.13128	-.00287	15.564	-.00853	17.039
#2	3.9226	.00123	.13212	-.00271	15.424	.00194	17.047
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39680	.40036	.01186	-.00330	.00302	.06498	.03434
SDev	.00012	.00018	.00004	.00308	.00038	.00352	.00126
%RSD	.03086	.04518	.30610	93.229	12.539	5.4231	3.6575
#1	.39689	.40023	.01188	-.00112	.00275	.06249	.03346
#2	.39672	.40048	.01183	-.00548	.00329	.06747	.03523
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	-.00291	-.00362	.0587	.6606	2.350		
SDev	.00049	.00299	.0001	.0004	.002		
%RSD	16.802	82.638	.1884	.0595	.0956		
#1	-.00325	-.00574	.0588	.6603	2.351		
#2	-.00256	-.00151	.0586	.6608	2.348		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7552	--	--	--	--	--	--
SDev	14.08551	--	--	--	--	--	--
%RSD	.1865196	--	--	--	--	--	--
#1	7542	--	--	--	--	--	--
#2	7562	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QM

Operator: KT

Run Time: 02/19/01 18:37:47

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04920	-.00100	-.00204	197.03	.04019	1.4879	.00592
SDev	.00038	.00083	.00226	.53	.00129	.0028	.00001
%RSD	.76484	83.511	111.12	.26776	3.2182	.18919	.14020
#1	.04893	-.00158	-.00364	197.40	.03928	1.4899	.00593
#2	.04947	-.00041	-.00044	196.65	.04111	1.4859	.00591
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00528	202.86	.27340	.08805	.52190	209.83	86.785
SDev	.00019	.15	.00076	.00027	.00134	.08	.212
%RSD	3.6014	.07638	.27800	.30807	.25755	.03795	.24403
#1	.00515	202.97	.27286	.08786	.52285	209.89	86.935
#2	.00542	202.75	.27394	.08824	.52095	209.78	86.635
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.7106	.00325	.18288	-.00252	31.319	.00023	17.527
SDev	.0005	.00229	.00030	.00028	.228	.00041	.005
%RSD	.01145	70.380	.16351	11.195	.72714	176.46	.02625
#1	4.7110	.00487	.18309	-.00232	31.480	.00052	17.531
#2	4.7102	.00163	.18267	-.00271	31.158	-.00006	17.524
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49302	.60361	.00883	-.00353	.00095	.06714	.04024
SDev	.00052	.00002	.00808	.00486	.00293	.00451	.00169
%RSD	.10497	.00260	91.507	137.65	308.52	6.7099	4.1866
#1	.49266	.60362	.01454	-.00697	.00302	.06395	.04144
#2	.49339	.60360	.00312	-.00009	-.00112	.07032	.03905
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	.00636	-.00467	.1455	2.214	2.148		
SDev	.00355	.00302	.0002	.004	.013		
%RSD	55.832	64.683	.1646	.2011	.6090		
#1	.00887	-.00680	.1457	2.217	2.158		
#2	.00385	-.00253	.1453	2.211	2.139		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7329	--	--	--	--	--	--
SDev	11.96419	--	--	--	--	--	--
%RSD	.1632378	--	--	--	--	--	--
#1	7321	--	--	--	--	--	--
#2	7338	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DV7QN

Operator: KT

Run Time: 02/19/01 18:45:48

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08696	-.00238	.00095	264.22	.06626	2.0069	.00828
SDev	.00141	.00195	.00051	.23	.00505	.0074	.00003
%RSD	1.6224	81.999	54.099	.08856	7.6217	.36910	.31708
#1	.08596	-.00376	.00058	264.39	.06269	2.0121	.00829
#2	.08795	-.00100	.00131	264.06	.06983	2.0016	.00826
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00660	69.455	.34119	.12931	.47950	324.58	97.744
SDev	.00047	.056	.00067	.00017	.00103	.04	.300
%RSD	7.0735	.08020	.19565	.12933	.21426	.01329	.30663
#1	.00693	69.415	.34166	.12943	.48023	324.55	97.956
#2	.00627	69.494	.34071	.12919	.47877	324.61	97.532
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.1486	.00858	.36055	-.00348	11.062	.00502	17.886
SDev	.0089	.00322	.00047	.00004	.096	.00089	.002
%RSD	.10861	37.526	.13083	1.2356	.86669	17.697	.01231
#1	8.1549	.01085	.36088	-.00345	11.130	.00565	17.888
#2	8.1424	.00630	.36021	-.00351	10.994	.00439	17.885
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55085	.74193	-.00150	.00079	.00126	.11959	.07066
SDev	.00013	.00090	.00004	.00144	.00135	.00023	.00200
%RSD	.02354	.12091	2.4046	182.98	106.81	.18939	2.8333
#1	.55095	.74257	-.00148	-.00023	.00222	.11943	.06925
#2	.55076	.74130	-.00153	.00181	.00031	.11976	.07208
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm		
Avge	-.00232	-.00241	.0669	.7275	2.173		
SDev	.00418	.00502	.0002	.0023	.010		
%RSD	179.97	208.07	.3646	.3128	.4689		
#1	.00063	-.00596	.0671	.7291	2.180		
#2	-.00528	.00114	.0667	.7258	2.165		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7678	--	--	--	--	--	--
SDev	27.63379	--	--	--	--	--	--
%RSD	.3599171	--	--	--	--	--	--
#1	7658	--	--	--	--	--	--
#2	7697	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCVT

Operator: KT

Run Time: 02/19/01 18:53:48

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49900	.50450	.49906	24.349	.49785	1.9912	2.0647
SDev	.00223	.00417	.00153	.155	.00573	.0059	.0022
%RSD	.44640	.82756	.30726	.63834	1.1505	.29776	.10588
#1	.50057	.50745	.49798	24.459	.50190	1.9954	2.0632
#2	.49742	.50155	.50015	24.239	.49380	1.9871	2.0663
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000
Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50818	102.86	2.0358	2.0209	1.9486	25.527	99.729
SDev	.00058	.01	.0012	.0015	.0081	.023	.228
%RSD	.11488	.00784	.05674	.07478	.41349	.08881	.22853
#1	.50859	102.87	2.0350	2.0219	1.9543	25.543	99.891
#2	.50776	102.86	2.0366	2.0198	1.9429	25.511	99.568
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000
Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0303	1.9873	2.0382	.99676	49.009	.97930	2.0391
SDev	.0004	.0286	.0015	.00342	.416	.00648	.0010
%RSD	.01789	1.4369	.07564	.34322	.84895	.66131	.04799
#1	2.0305	1.9671	2.0393	.99918	49.304	.97472	2.0398
#2	2.0300	2.0075	2.0371	.99434	48.715	.98388	2.0384
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000
Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0354	2.0444	1.9715	.50136	.49446	.49779	.49960
SDev	.0002	.0002	.0031	.00269	.00079	.00604	.00033
%RSD	.01040	.00962	.15825	.53690	.15913	1.2123	.06543
#1	2.0352	2.0446	1.9693	.49946	.49501	.50206	.49983
#2	2.0355	2.0443	1.9737	.50327	.49390	.49353	.49937
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				
Elem	1960_1	1960_2	B_2496	Sr4215	Si2881		

Units			ppm	ppm	ppm
Avge	.50240	.50555	2.008	2.036	2.003
SDev	.00434	.00843	.001	.004	.007
%RSD	.86458	1.6671	.0606	.2209	.3476

#1	.49933	.51151	2.007	2.039	2.008
#2	.50547	.49959	2.009	2.033	1.998

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7321	--	--	--	--	--	--
SDev	11.59648	--	--	--	--	--	--
%RSD	.1584011	--	--	--	--	--	--
#1	7329	--	--	--	--	--	--
#2	7313	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCBT

Operator: KT

Run Time: 02/19/01 19:01:49

Comment:

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00229	-.00293	.00112	-.03787	-.00316	.00026	-.00002
SDev	.00185	.00023	.00195	.00111	.00196	.00000	.00008
%RSD	80.753	7.7916	174.56	2.9344	62.035	.29988	412.24

#1	-.00098	-.00277	-.00026	-.03866	-.00455	.00026	.00004
#2	-.00360	-.00309	.00250	-.03708	-.00177	.00027	-.00008

Errors	QC Pass						
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.01858	.00006	.00033	.00002	-.00576	-.00118
SDev	.00002	.00994	.00026	.00091	.00027	.00207	.00436
%RSD	71.397	53.485	459.71	278.11	1278.3	36.040	371.19

#1	.00001	.02561	.00024	.00098	-.00017	-.00722	.00191
#2	.00003	.01156	-.00013	-.00032	.00021	-.00429	-.00426

Errors	QC Pass						
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	.00153	.00088	.00000	.01924	-.00002	.00087
SDev	.00000	.00223	.00000	.00022	.02257	.00039	.00000
%RSD	10.419	145.35	.40359	4807.8	117.30	2212.8	.27712

#1	-.00001	.00311	.00088	-.00015	.00328	.00026	.00087
#2	-.00001	-.00004	.00088	.00016	.03520	-.00029	.00087

Errors	QC Pass						
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00095	-.00004	.00017	.00085	.00165	-.00017	-.00335
SDev	.00000	.00000	.00259	.00272	.00042	.00121	.00217
%RSD	.13059	9.3551	1567.9	318.85	25.662	693.22	64.873

#1	-.00095	-.00004	-.00166	-.00107	.00135	.00068	-.00181
#2	-.00095	-.00004	.00199	.00277	.00195	-.00103	-.00488

Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881
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Units			ppm	ppm	ppm
Avge	.00541	-.00709	.0007	.0000	<.0000
SDev	.00210	.00139	.0000	.0000	.0004
%RSD	38.895	19.639	.8989	.0000	9.545

#1	.00392	-.00610	.0007	.0000	<.0000
#2	.00689	-.00807	.0007	.0000	<.0000

Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7564	--	--	--	--	--	--
SDev	22.68404	--	--	--	--	--	--
%RSD	.2998821	--	--	--	--	--	--
#1	7580	--	--	--	--	--	--
#2	7548	--	--	--	--	--	--

STL LOS ANGELES
Metals Preparation Work Sheet

Batch: 1047263

The following information applies to all samples associated with the above batch number.

Prepared By: JG

Date/Time Initiated: 2/16/01 1130

Reviewed By: JG

Date/Time Completed: 2/17/01 1500

Hot Plate/Block # 6 Temp* 95 °C

Thermometer # FP-1811

*Thermometer correction applied. (CF +0.0 °C)

Spike Standards for LCS and MS/MSD samples.

	Volume	Lot #	Exp. Date
1. QSPK1A	<u>1.0</u> mL	QSPK1A-012301-1	12/2002
2. QSPK1B	<u>1.0</u> mL	QSKP1B-012301-1	12/2002
3. QSPK2A	<u>NA</u> mL	QSPK2A 091200-2	08/2002
4. QSPK2B	<u>8</u> mL	QSPK2B-101600-2	12/2001

Reagents	Volume	Lot #
HNO ₃	<u>10</u> mL	6623 T09A058
H ₂ O ₂	<u>4</u> mL	5240T15A01
HCl	<u>10</u> mL	5587 T24A01

SOP No. SANA-IP-0002, Revision 0

Method 3050B

- Step 1. Thoroughly mix and weigh 1.0g (±0.01g) sample.
- Step 2. Add 10 mL of 1:1 HNO₃.
- Step 3. Cover and heat at 95°C for 10 min.
- Step 4. Cool and add 5 mL conc. HNO₃, cover and heat at 95 °C for 30 min.
- Step 5. If brown fumes observed, repeat last step until no fumes are evolved.
- Step 6. Reduce volume to approx. 5 mL or heat for 2 hours.
- Step 7. Cool and add 2 mL of water and 3 MI of 30% H₂O₂.
- Step 8. Heat until effervescence subsides.
- Step 9. Cool and add 1 mL H₂O₂ with heat effervescence is minimal.
- Step 10. Reduce volume to approx. 5 mL or heat for 2 hours.
- Step 11. Add 10 mL of conc. HCl and heat for 15 min.
- Step 12. Cool, rinse and filter sample with DI water.
- Step 13. Dilute to 100 mL with DI water and mix sample.

add

Redigestion required - Samples/Reason: _____
Requested By: _____ Date: _____ Completed By: _____ Date: _____

Digestate Chain-of-Custody:

Relinquished By: JG Date: 2/17/01 Received By: JG Date: 02/19/01

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 2/17/01
Time: 12:27:34

BATCH NUMBER: 1047263

PREP DATE: 2/16/01
DUE DATE 2/20/01

COMP DATE: 2/16/01
INITIALS: *Jc*

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
E1B160288	DV9F1	01	X <u>1.00</u> g	_____g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B160288	DV9F9	01	X <u>1.00</u> g	_____g	_____g	_____g
SOLID	TO DUE DATE:		2/20/01			
E1B150298	DV7QG	01	X <u>1.00</u> g	_____g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
	DV7QGS		<u>1.00</u> g	_____g	_____g	_____g
	DV7QGD		<u>1.00</u> g	_____g	_____g	_____g
E1B150298	DV7QH	01	X <u>0.99</u> g	_____g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150298	DV7QK	01	X <u>1.01</u> g	_____g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150298	DV7QL	01	X <u>1.01</u> g	_____g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150298	DV7QM	01	X <u>1.01</u> g	_____g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B150298	DV7QN	01	X <u>0.99</u> g	_____g	_____g	_____g
SOLID	TO DUE DATE:		2/21/01			
E1B160000	DV8G4B	01	X <u>1.00</u> g	_____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	DV8G4C		<u>1.02</u> g	_____g	_____g	_____g

_____ LEVEL 2
 _____ BLANK AND CHECK STANDARD ON BATCH _____
 _____ MS/MSD AND PDS ON BATCH _____
 _____ CURVE PREPPED FOR HG _____
 _____ CORRECT SPIKES ADDED _____
 _____ SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

